OHIO WEATHER FOR 1920

OHIO
Agricultural Experiment Station

WOOSTER, OHIO, U. S. A., JUNE, 1921

BULLETIN 352

OHIO AGRICULTURAL EXPERIMENT STATION

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[1]In cooperation with the College of Agriculture, Ohio State University, Columbus.
[2]In cooperation with the U. S. Department of Agriculture.

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BULLETIN
OF THE
Ohio Agricultural Experiment Station
NUMBER 352 JUNE, 1921

OHIO WEATHER FOR THE YEAR 1920

W. H. ALEXANDER AND C. A. PATTON

INTRODUCTORY AND GENERAL

The years 1919 and 1920 were, in several respects, very much alike in that both were characterized by a large amount of fine, open weather and in the main were quite free from hurtful extremes. Perhaps the *ugliest* thing in the record of 1920, in popular thought at least, was the icy condition of the streets, roads and fields that prevailed so long early in the year, making travel exceedingly difficult and dangerous and plant-growth practically impossible, and the most *beautiful* was the cool summer and delightful fall. Those interested in a close inspection and detailed study of the meteorological record of 1920 should not overlook the following, viz: (1) that January was one of the coldest in the history of the Weather Bureau; (2) the remarkable persistency of the cold, disagreeable weather through January and February; (3) the icy conditions, above referred to, that extended from about January 21 to the end of February, constituting by far the severest weather conditions of the year; (4) a marked precipitation deficiency in February, a number of stations recording the smallest amount of record; (5) that the month of April was the coldest, wettest, and cloudiest April of record, precipitation occurring almost daily and many stations reporting no clear days, making it a very gloomy month; (6) that May was very dry and cool no rain of consequence occurring on 19 days; (7) the occurrence of many and in places destructive local wind and electric storms in June and August; (8) that August was very cool and wet; (9) a remarkable period of 23 consecutive days without rain in October, namely, from the 2d to the 24th, inclusive; (10) an unprecedented fall of snow in November, the amounts at several stations ranging from 5 to 15 inches; (11) that December was notably mild, especially the first half; and (12) that although the last killing frosts of spring occurred later than usual the first of the autumn were delayed considerably beyond the average date.

Mean temperatures, January, 1920

Fig. 1.—The average temperature for the State was 22.1°, the station averages ranging from 15.8° at Wauseon to 32 5° at Chilo. The highest temperature recorded, 65°, occurred on the 20th at two stations, Chilo and Portsmouth; the lowest, —11°, occurred on the 25th at Paulding, thus giving an extreme range of 76°. The greatest daily range, 48°, occurred on the 25th at two stations, Haydenville and Vickery.

Temperature departures, January, 1920

Fig. 2.—Temperatures were generally deficient over the State. The locality of least deficiency was in the extreme southern counties and of the greatest deficiency, in the northwestern counties.

Precipitation, January, 1920

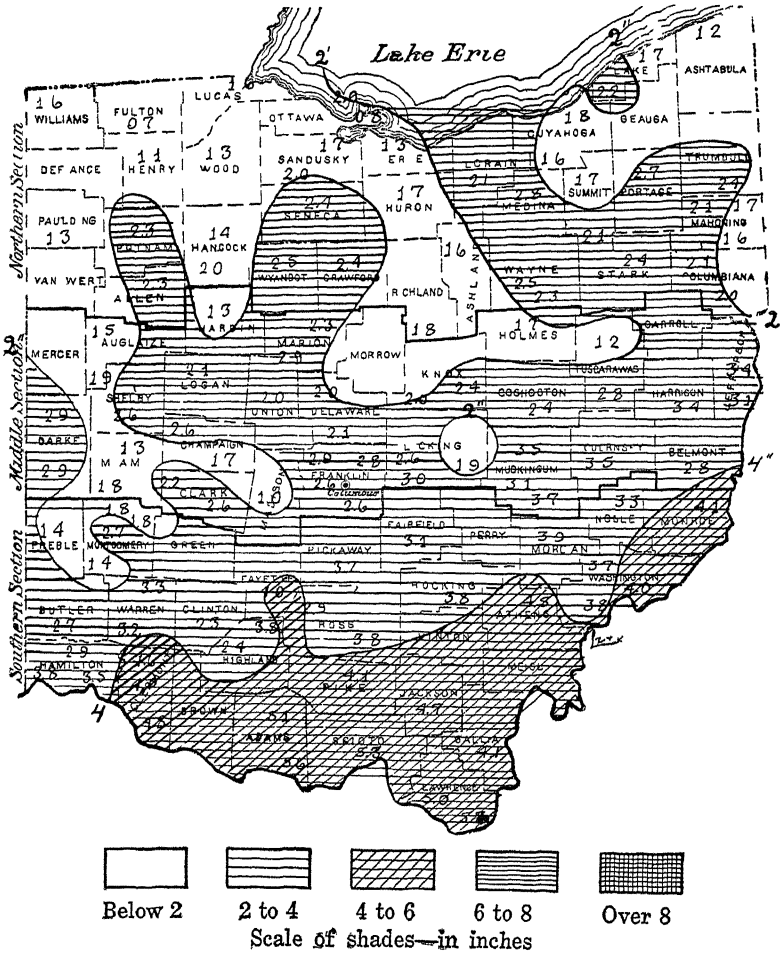

Fig. 3.—The average precipitation for the State was 2.61 inches, ranging in station amounts from 5.60 inches at Green to 0.70 inch at Wauseon. The heaviest 24-hour rainfall was 2 01 inches at Mulberry on the 8th. The average number of days with .01 inch or more was 10.

Precipitation departure, January, 1920

Fig. 4.—The average precipitation for the month was 0.67 inch below the normal. This deficiency was general over the State except in the counties along the Ohio river from Hamilton to Washington counties and in some of the counties in the lower Scioto and lower Muskingum valleys where there was a slight excess.

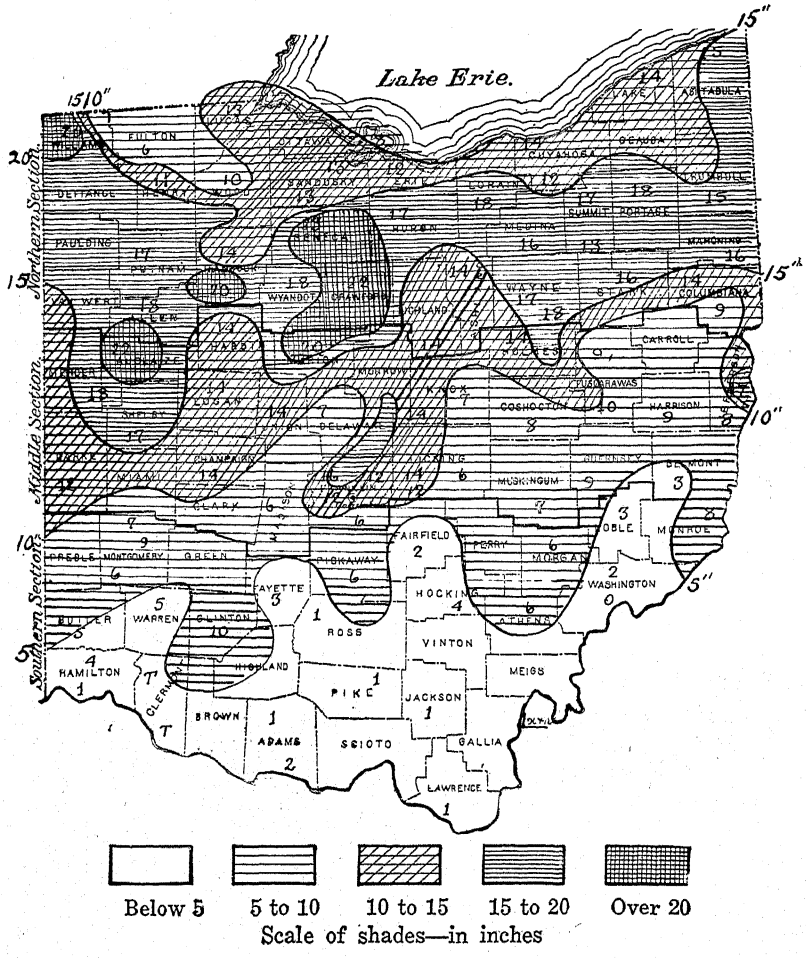

Fig. 5.—The average snowfall for the State was 10.6 inches, ranging in amounts from trace in Clermont County to 23.0 inches in Seneca County. It was below normal in practically all southern counties and above normal generally over the northern districts.

Mean temperatures, February, 1920

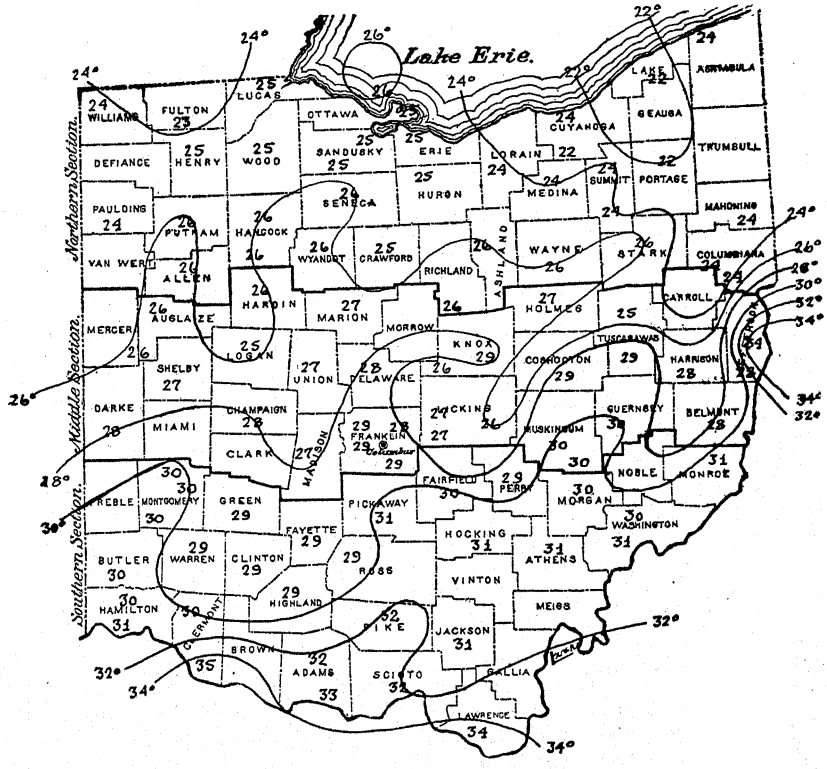

Fig. 6.—The average temperature for the State was 27.4°, the station means ranging from 35.2° at Chilo to 22.2° at Hillhouse. The highest reported temperature was 66° at Peebles on the 2d and the lowest, —7° at Hillhouse on the 19th, giving a range of 73° for the State. The greatest daily range was 46° at Hillsboro on the 2d.

Temperature departures, February, 1920

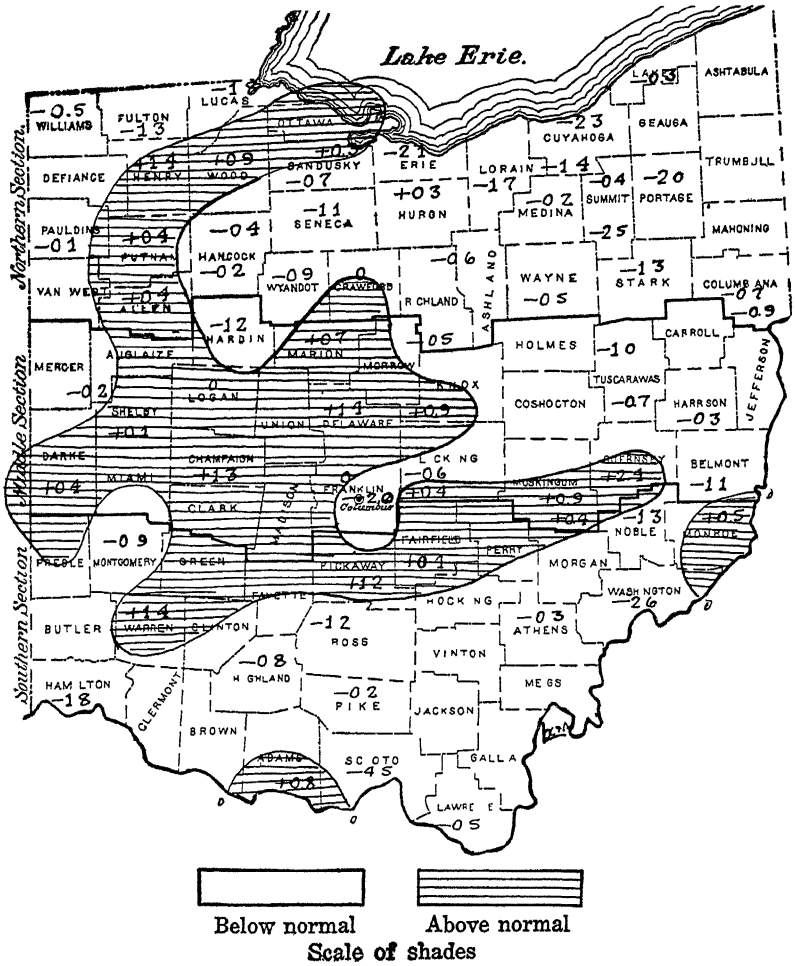

Fig 7.—The average temperature for the State was 0 4° below the normal. This deficiency was by no means general, however, as is shown by the map. It was greatest in northeastern counties, and the greatest area of excess occurred in the west-central counties.

Precipitation, February, 1920

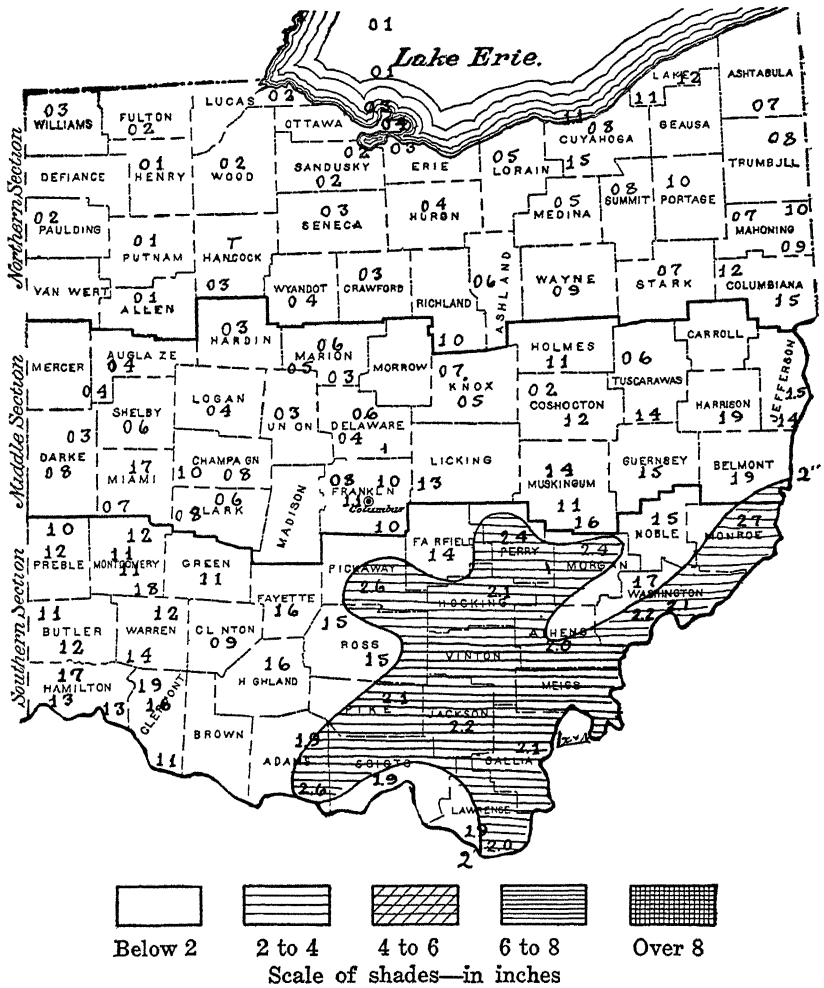

Fig. 8.—The average precipitation for the State was 1.05 inches, ranging in station amounts from trace at Findlay, to 2.73 inches at Clarington. The heaviest 24-hour precipitation was 1 12 inches at Milligan on the 7th. The average number of rainy days (.01 inch or more) was 8.

Precipitation departures, February, 1920

Fig. 9.—The average precipitation for the State was 1.65 inches below the normal. This deficiency was general over the State. In many of the northern counties, this was the driest February of record. The deficiency was considerable over the northern half of the State but was greatest in the northwestern counties.

Snowfall, February, 1920

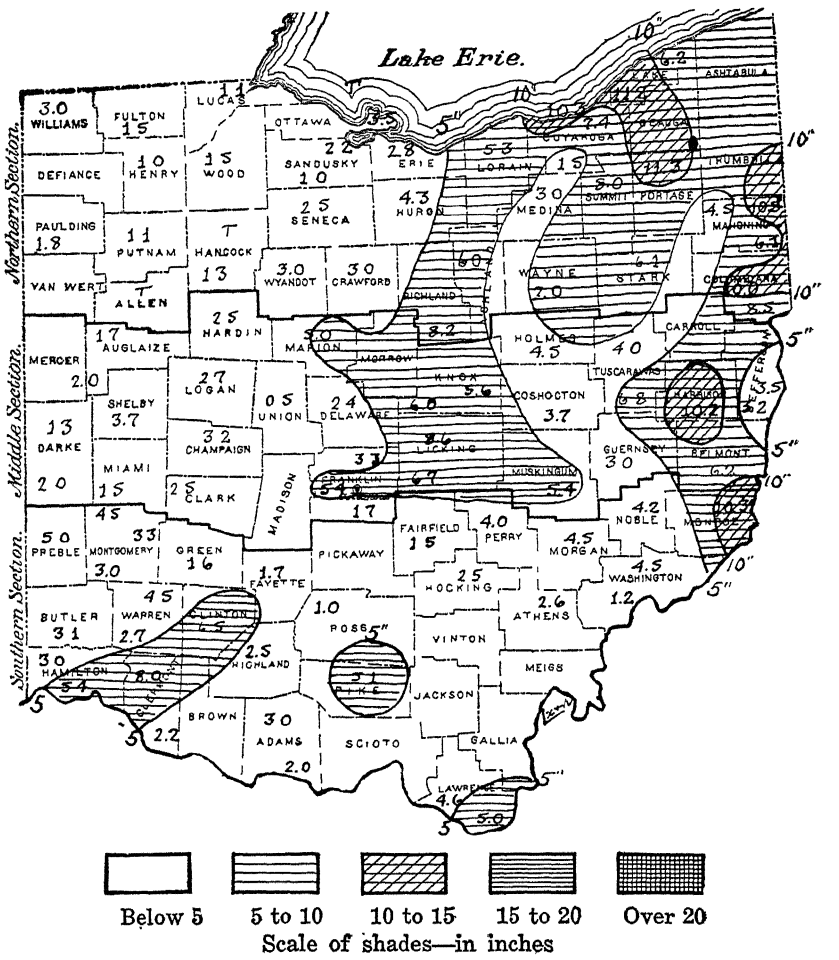

Fig. 10.—The average snowfall for the State was 4.1 inches, which was slightly below the normal. The greatest local monthly amount was 15.0 inches at North Royalton. The fall was greatest in the extreme eastern and in some of northeast lake shore counties and least in Hancock County and vicinity.

Mean temperatures, March, 1920

Fig. 11.—The mean temperature for the State was 41.7°, ranging in station values from 48.0° at Chilo to 36 5° at Wauseon. The highest for the month was 84° at Chilo on the 28th and the lowest was—4° at Millport on the 1st, giving a range of 88° for the State.

Temperature departure, March, 1920

Fig. 12.—The average temperature for the State was 3.0° **above** normal. This excess was well and evenly distributed over the State but was probably greatest in the northern counties.

Precipitation, March, 1920

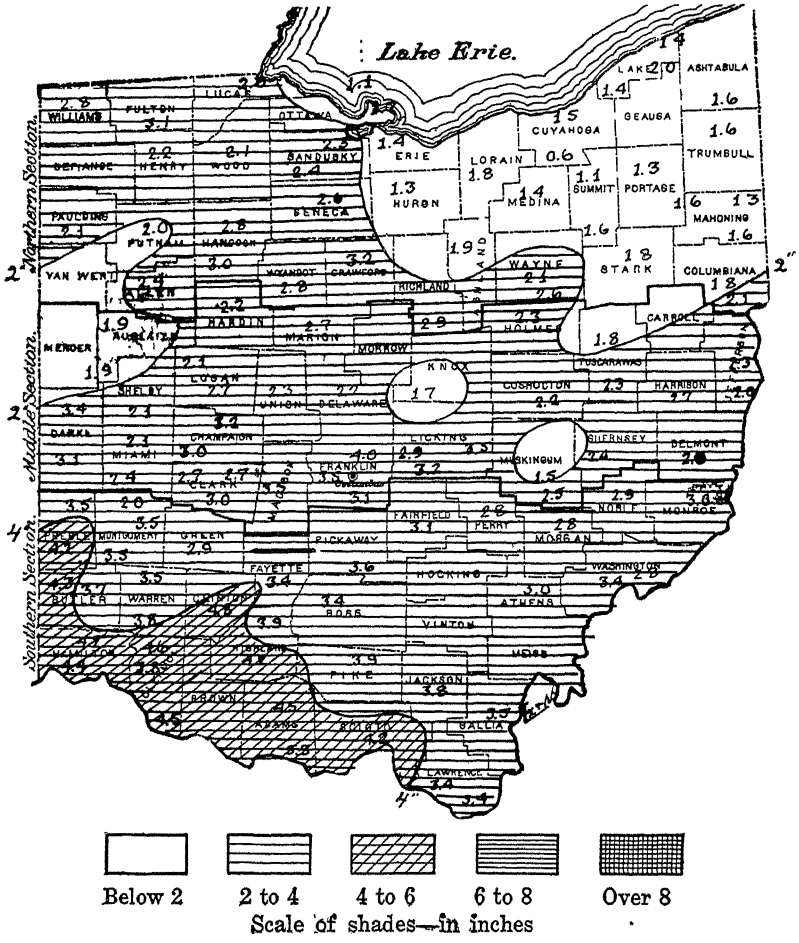

Fig. 13.—The average for the State was 2.72 inches, ranging in station amounts from 5.27 inches at Green to 1.09 inches at Catawba Island. The heaviest rainfall recorded in any 24 consecutive hours was 1.40 inches at Chilo, Waverly and Xenia on the 16th. The average number of days with .01 inch or more precipitation was 9.

Precipitation departures, March, 1920

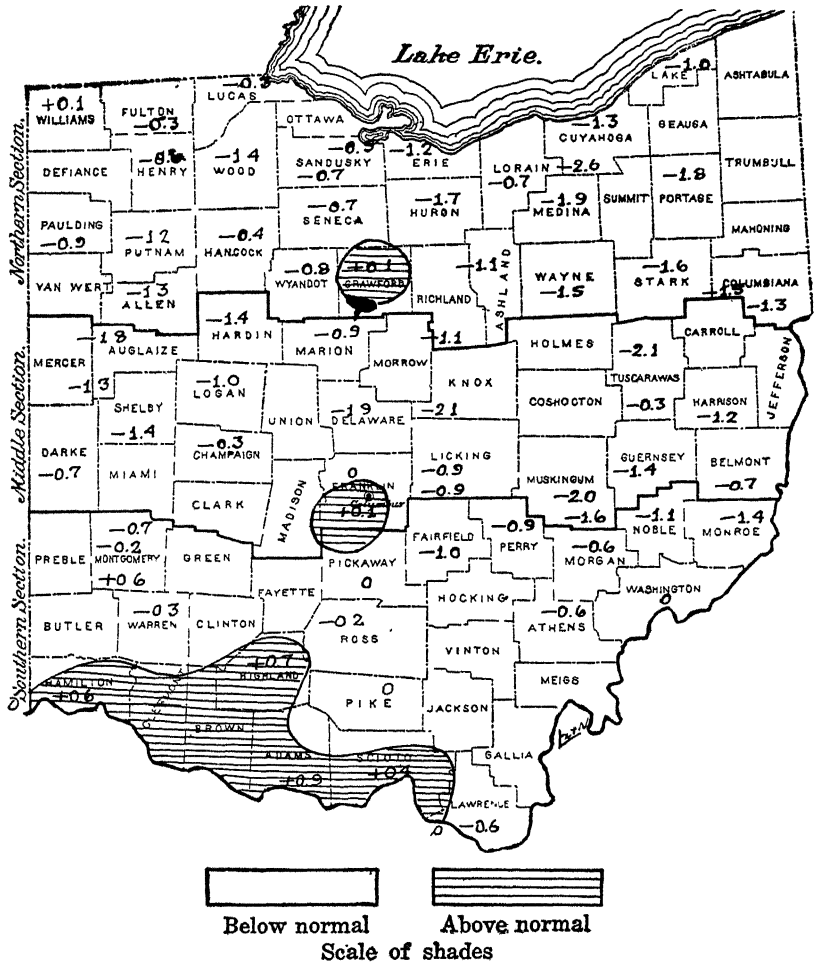

Fig. 14.—The average precipitation for the State was 0.86 inch **below** the normal. However, the extreme southwestern counties along the Ohio River as well as Franklin and Crawford counties showed amounts slightly in excess of the normal. Elsewhere the amounts were below normal, the deficiency being greatest in southern Cuyahoga County.

Snowfall, March, 1920

Fig. 15.—The average snowfall for the State was 1.1 inches which is somewhat below the March average. The greatest monthly amount was 4.5 inches at Oberlin. The fall was generally greatest over the northeastern and least over the south-central counties.

Mean temperatures, April, 1920

Fig. 16.—The average temperature for the State as a whole was 45.8°, the station averages ranging from 41.2° at Hiram and Wauseon to 53.8° at Chilo. The highest temperature recorded was 90° at Ironton on the 22d and the lowest was 14° at Montpelier and Paulding on the 6th, thus giving a range for th State of 76°. The greatest daily range was 55° at Peebles on the 11th.

Temperature departures, April, 1920

Fig. 17.—The mean temperature for the State, 45.8°, was 4.1° below the normal. The deficiency was quite general and was slightly greater over the northern than over the southern half of the State.

Precipitation, April, 1920

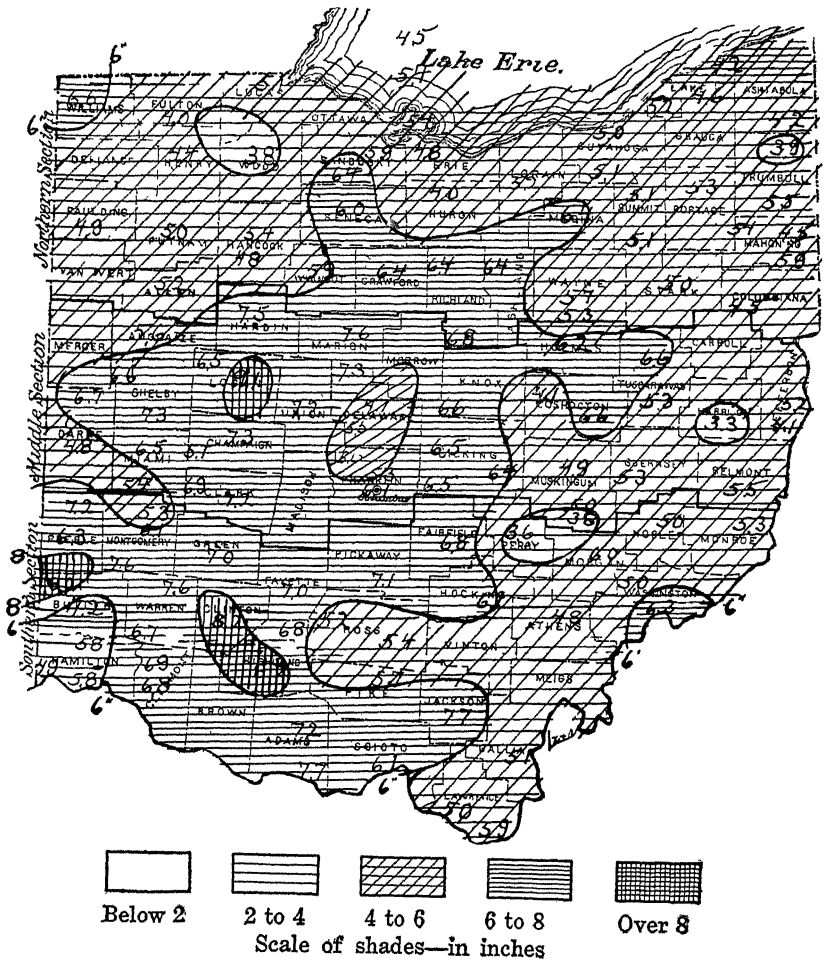

Fig 18.—The average for the State was 5.78 inches, the station amounts varying from 3.29 inches at Cadiz to 9 06 inches at Bellefontaine. The greatest amount in any 24 consecutive hours was 3 61 inches at Fremont on the 24th. Precipitation occurred, on an average, on 16 days, or a little oftener than every other day.

Precipitation departures, April, 1920

Fig. 19.—The average precipitation for the State (5.78 inches) was 2.58 inches above the normal. But one station, Cadiz, reported a deficiency. The excess was quite unevenly distributed over the State, some stations recording more than twice the normal amount. On the whole the excess was greatest in the southwestern counties.

Snowfall, April, 1920

Fig. 20.—The snowfall averaged, for the State, about 3.3 inches, the greatest amount recorded at any one station being 10.0 inches at Wilmington.

Mean temperatures, May, 1920

Fig. 21.—The mean temperature for the State, 100 stations reporting, was 58.3°, the individual station means ranging from 53.2° at Madison to 65.0° at Chilo. The highest temperature recorded was 94° and occurred at two stations, Peebles on the 30th and at Chilo on the 31st. The lowest was 25° at Canfield, Greenfield, Hillhouse and Millport on the 15th. The extreme range was, therefore, 69°. The greatest daily range was 50° at Peebles on the 30th.

Temperature departures, May, 1920

Fig. 22.—The average temperature for the State (58.3°) was 2.6° below the normal. This deficiency was quite general and evenly distributed.

Precipitation, May, 1920

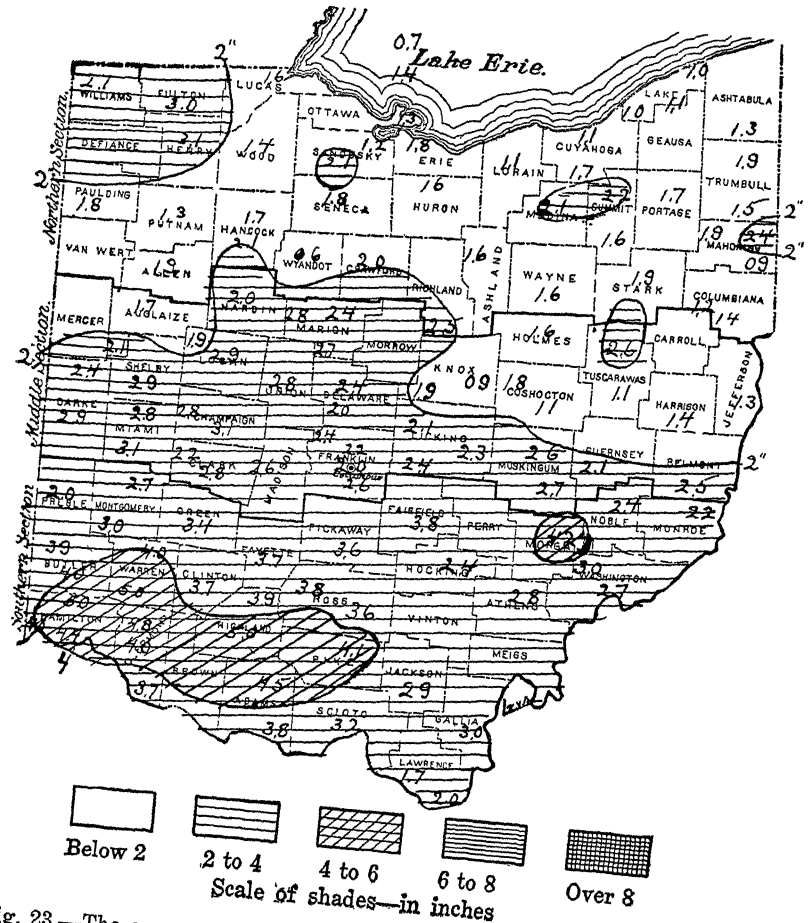

Fig. 23.—The average precipitation for the State, 133 stations reporting, was 2.45 inches. The average number of days with rain (0.01 inch or more) was 7. The station amounts ranged from 0.65 inch at Upper Sandusky to 5.05 inches at King's Mills. The greatest amount in any 24 consecutive hours was 3.45 inches at Mt. Healthy on the 12th.

Precipitation departures, May, 1920

Fig. 24.—The State average (2.45 inches) was 1.36 inches **below** the usual amount for the month of May. This deficiency was very general except in a few of the southwestern counties and in Morgan County where there was a slight excess. The deficiency was greatest in the northern division.

Mean temperatures, June, 1920

Fig. 25.—The temperature over the State averaged 68.9°, the station means ranging from 64.4° at Canfield to 71.6° at Frankfort and Hamilton. The highest temperature recorded was 98° at Findlay, Frankfort, Napoleon, Peebles and Wapakoneta on the 10th and the lowest was 38° at Green Hill and Marysville on the 6th, thus giving an extreme range of 60° for the State.

Temperature departures, June, 1920

Fig. 26.—The State average, 68.9, was only 0.1 below the normal. Note on the chart above the large number of stations having exactly normal averages for the month. A few of the northwestern counties averaged slightly above and a few of the southern counties slightly below the normal.

Precipitation, June, 1920

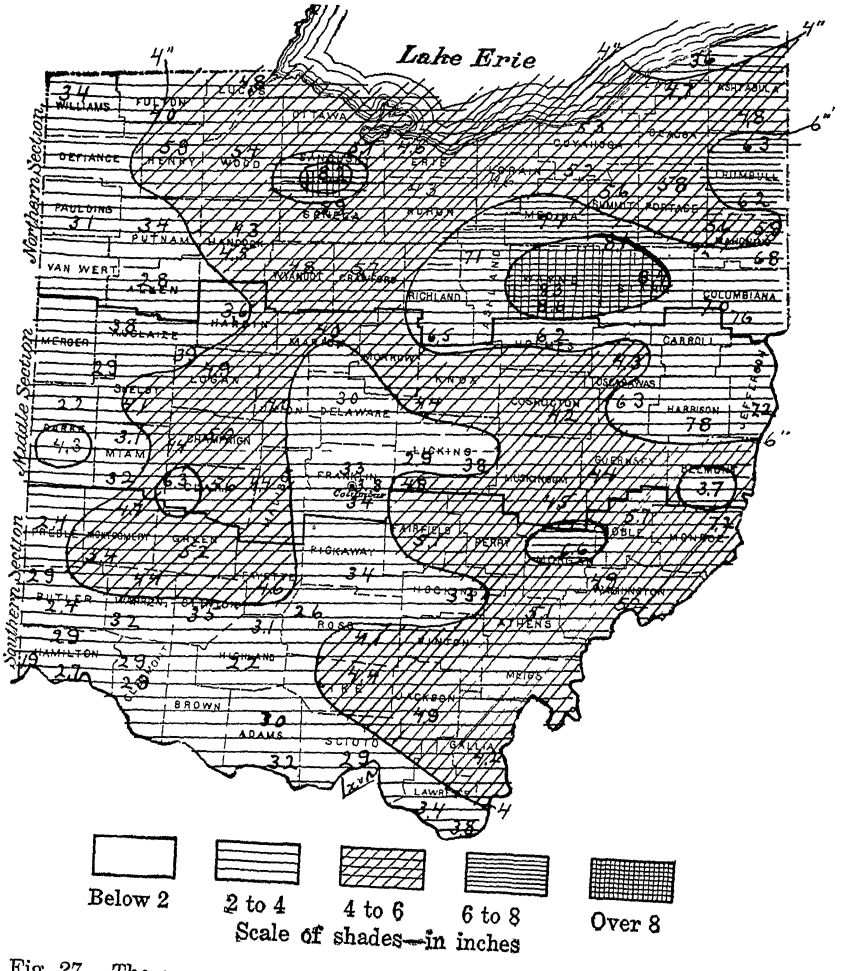

Fig. 27.—The average precipitation for the State as determined from the reports from 128 stations, was 4.53 inches, the individual station totals ranging from 2.16 inches at Versailles to 8.65 inches at Wooster (2). Rain to the amount of 0.01 inch or more fell on an average of 12 days. The greatest 24-hour fall was 4.22 inches at Fremont on the 17th.

Precipitation departures, June, 1920

Fig. 28.—The average precipitation for the State, 4.53 inches, was 0.01 inch above the normal but the excess was not general over the State. There was an actual deficiency in many of the counties along the Ohio River and in most of those bordering on Indiana and in a few of those in the Scioto Valley. The excess was greatest over the northeast.

Mean temperatures, July, 1920

Fig. 29.—The average temperature for the State was 70.4° (95 stations reporting), the station averages ranging from 66.0° at Green Hill to 75.0° at Chilo. The highest temperature recorded was 98° at Clarington on the 23rd and the lowest was 40° at Medina on the 5th, thus giving an extreme range of 58° for the State. The greatest daily range, 45°, occurred at Millersburg and Oberlin on the 28th.

Temperature departures, July, 1920

Fig. 30.—The average temperature for the State, 70.4°, was 3.4° below the normal. This deficiency was general and quite evenly distributed over the State but was a little more pronounced in the central and east-central counties.

Precipitation, July, 1920

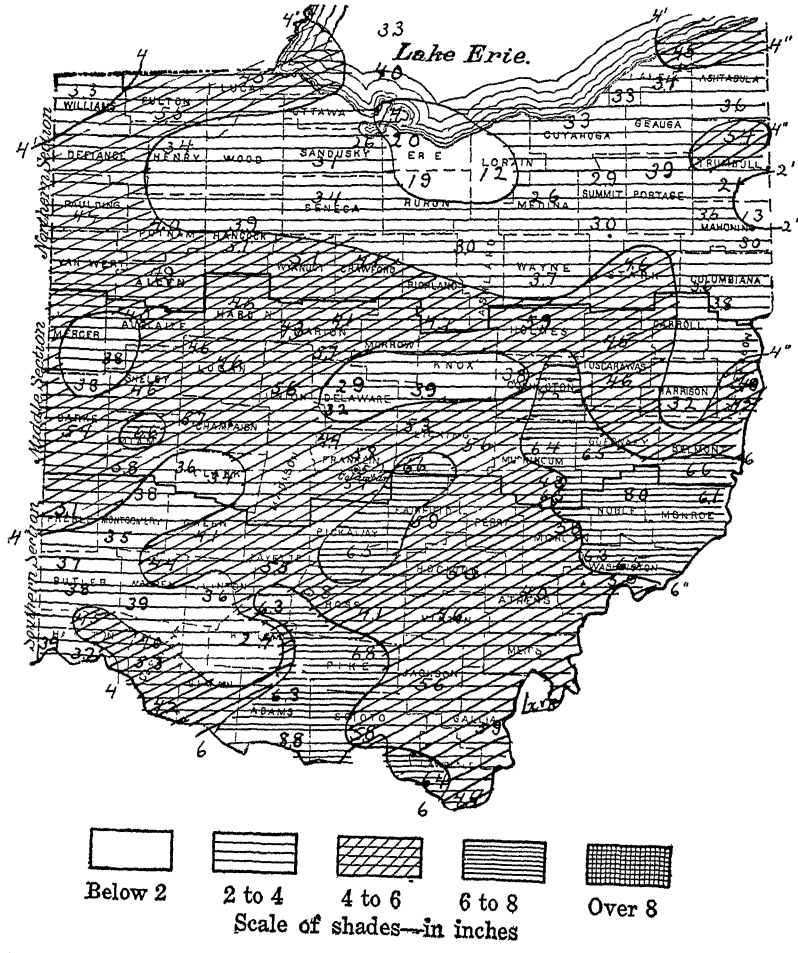

Fig. 31.—The average precipitation for the State based on reports from 127 well-distributed stations, was 4.50 inches; the station totals ranged from 1.25 inches at Oberlin to 8.85 inches at Green. Of the 127 stations, 74 reported a 24-hour fall of 1 inch or more, 7, a fall of 2 inches or more, and 3 (Greenville, Madison and Washington C. H.) a fall of 2½ inches or more, the greatest 24-hour fall being 2.97 inches at Greenville on the 2d. At Toledo 1.27 inches fell in 32 minutes on the 14th. Hail accompanied local storms on the 3d, 7th, 8th, 9th, 18th, 19th, 22d, 30th, and 31st, the hailstorms being quite general on the 8th and 31st. The average number of days with 0.01 inch or more of rain was 10.

Precipitation departures, July, 1920

Fig. 32.—The State average, 4.50 inches, was 0.44 inches **above** the normal but this excess was not general, most of the northeastern, two of the south-eastern, three of the southwestern and one of the northwestern counties showing a deficiency. The excess was greatest in the middle and lower Scioto Valley.

Mean temperatures, August, 1920

Fig. 33.—The temperature averaged for the State, 70.3° based on reports from 101 well-distributed stations. The station averages ranged from 67.2° at Wauseon to 74.4° at Middleport. The highest temperature recorded was 95° at Chilo on the 5th and the lowest was 40° at Greenfield on the 3d and at Summerfield on the 2d and 3d, thus giving a range of 55° for the State. The greatest daily range was 41° at Xenia on the 5th.

Temperature departures, August, 1920

Fig. 34.—The average temperature for the month, 70.3°, was 1.4° below the normal. This deficiency was quite uniform and general over the State except in Monroe County where there was a slight excess. Several stations reported exactly normal temperatures.

Precipitation, August, 1920

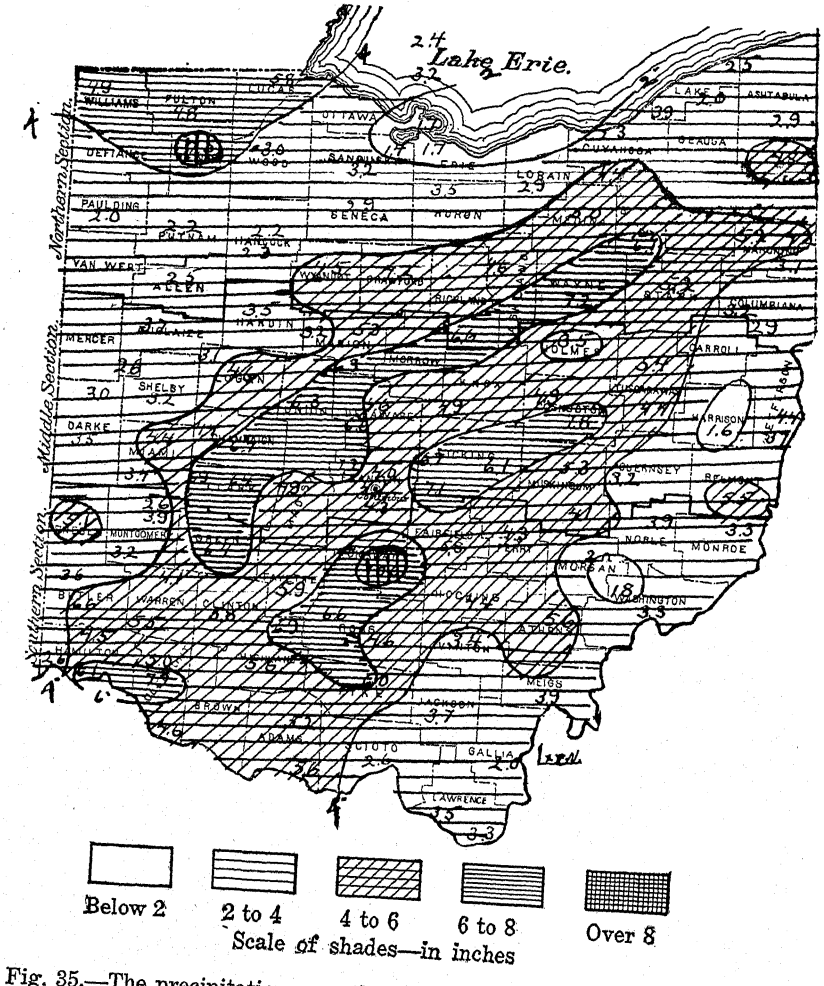

Fig. 35.—The precipitation over the State averaged 4.36 inches, 133 stations reporting. The station totals varied from 1.37 inches at Vickery to 9.99 inches at Circleville. The greatest amount in any 24 consecutive hours was 4.63 inches at Napoleon on the 16th. The following stations reported a 24-hour fall of 2.50 inches or more, viz: Cincinnati, 2.76 inches; Circleville, 4.09 inches; Hamilton, 4.48 inches; Napoleon, 4.63 inches; Toledo, 4.58 inches; Wooster, 2.98 inches. The average number of days with 0.01 inch of rain or more was 11.

Precipitation departures, August, 1920

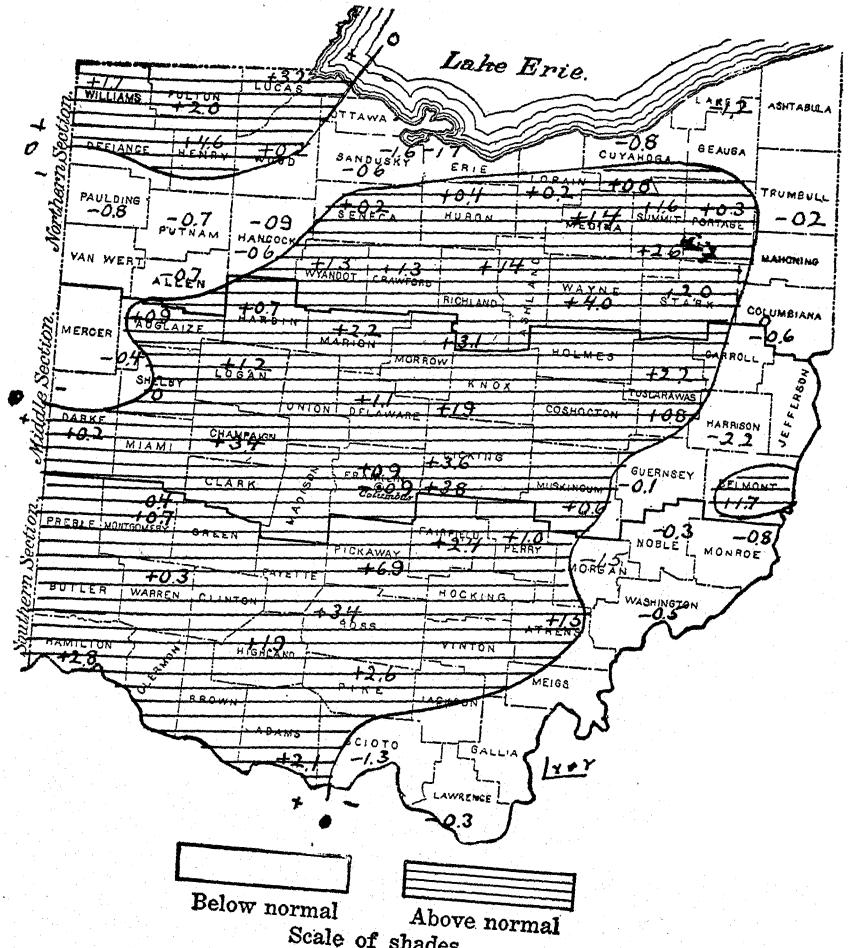

Fig. 36.—The average precipitation for the State, 4.36 inches, was 0.94 inch above the normal, but this excess was neither general nor evenly distributed over the State. In fact, there was an appreciable deficiency in the lake counties and in the counties bordering on the Pennsylvania line and along the Ohio River as far south as Scioto County, excepting Belmont County; there was also a slight deficiency in some of the northwestern counties, notably, Allen, Hancock, Paulding and Putnam.

Mean temperatures, September, 1920

Fig. 37.—The average temperature for the State, based on reports from 98 well-distributed stations, was 66.5°; the mean for the northern division was 65.6°, for the middle division, 66.1°, and for the southern division, 67.9°. The station means ranged from 62.1° at Canfield to 71.2° at Middleport. The highest temperature recorded was 95° at Peebles on the 26th and the lowest was 34° at Findlay and Paulding on the 30th, giving an extreme range of 61° for the State. The greatest daily range was 46° at Canfield on the 21st.

Temperature departures, September, 1920

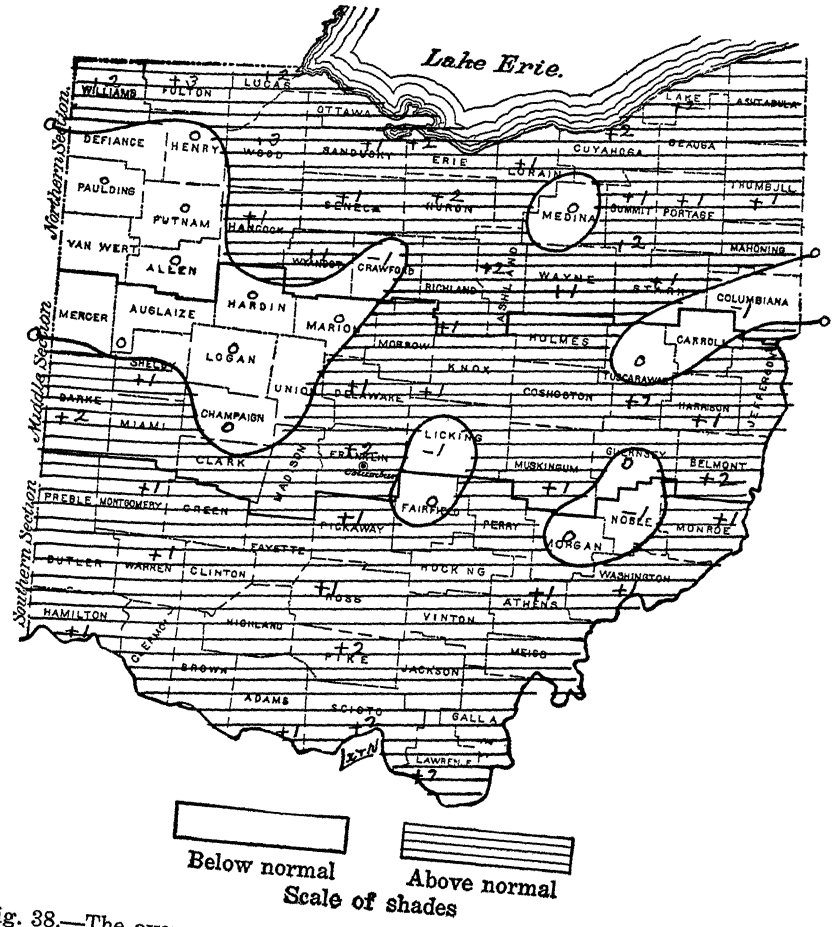

Fig. 38.—The average temperature for the State was 0.8° above the normal but there were local areas in which the temperature averaged normal or slightly below. The excess was a little greater in the northern division but was more nearly general in the southern.

Precipitation, September 1920

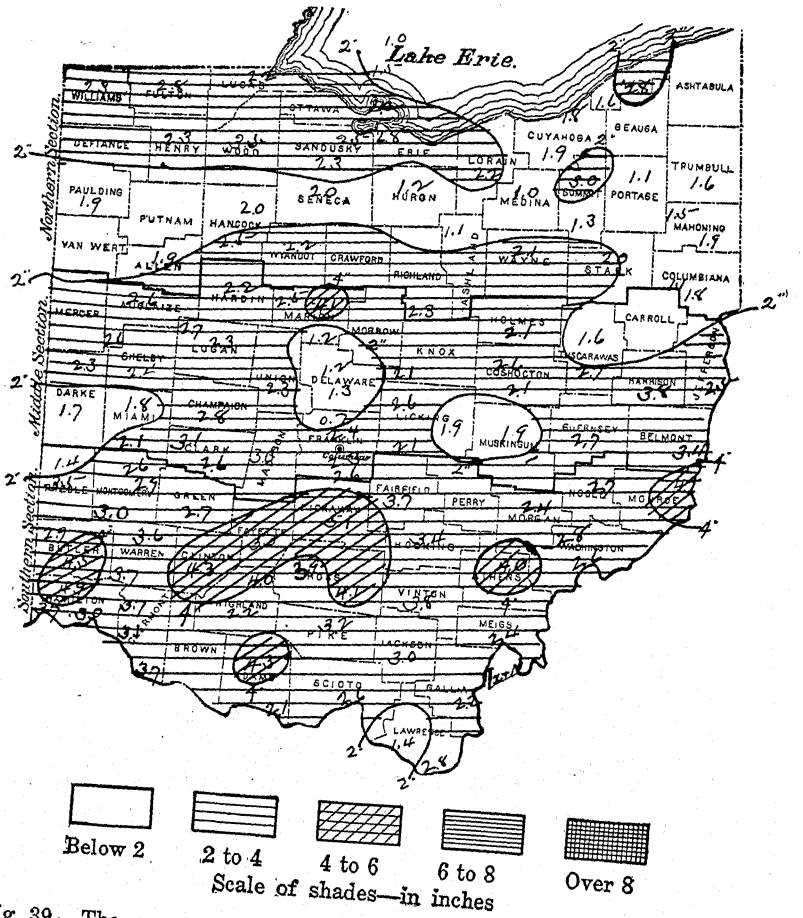

Fig. 39.—The average for the State, based on the reports from 131 stations, was 2.56 inches; the station totals ranged from 0.70 inch at Dublin to 5.05 inches at Circleville, both in the Scioto Valley. The average number of days with rain (0.01 inch or more) was 7. The greatest 24-hour fall reported was 2.58 inches at Mount Healthy on the 5th. Most of the rain fell during the first half of the month, particularly on the 5th and from the 9th to the 12th inclusive.

Precipitation departures, September, 1920

Fig. 40.—The average precipitation for the State, 2.56 inches, was 0.16 inch below the normal, but this deficiency was not general. In fact there was an excess, in places quite pronounced, in most of the counties of the southern division, notably, Clinton, Fayette, Pickaway and Ross.

Mean temperature, October, 1920

Fig. 41.—The mean temperature for the State, based on reports from 98 stations, was 58.5°, the station means ranging from 54.6° at Greenhill to 61.0° at Chilo. The highest temperature recorded, 89°, occurred at Middleport on the 20th and 21st, at Hillsboro on the 23d and at Brilliant on the 24th, at Peebles on the 19th and 21st and at Waverly on the 21st; the lowest, 21°, occurred at Philo (2) on the 31st; the extreme range was, therefore, 68°. The greatest daily range was 51° at Peebles on the 12th. Light frosts occurred on about the 7th and the first killing frosts of the season on the 28th or 29th.

Temperature departments, October, 1920

Fig. 42.—The State mean temperature was 5.3° above normal. The mean for the northern division was 58.6°, or 6.2° above normal; the mean for the middle division was 58.3°, or 4.9° above normal, and the mean for the southern division was 58.8°, or 3.9° above normal. The excess was entirely general and as indicated was greatest in the northern portions of the State.

Precipitation, October, 1920

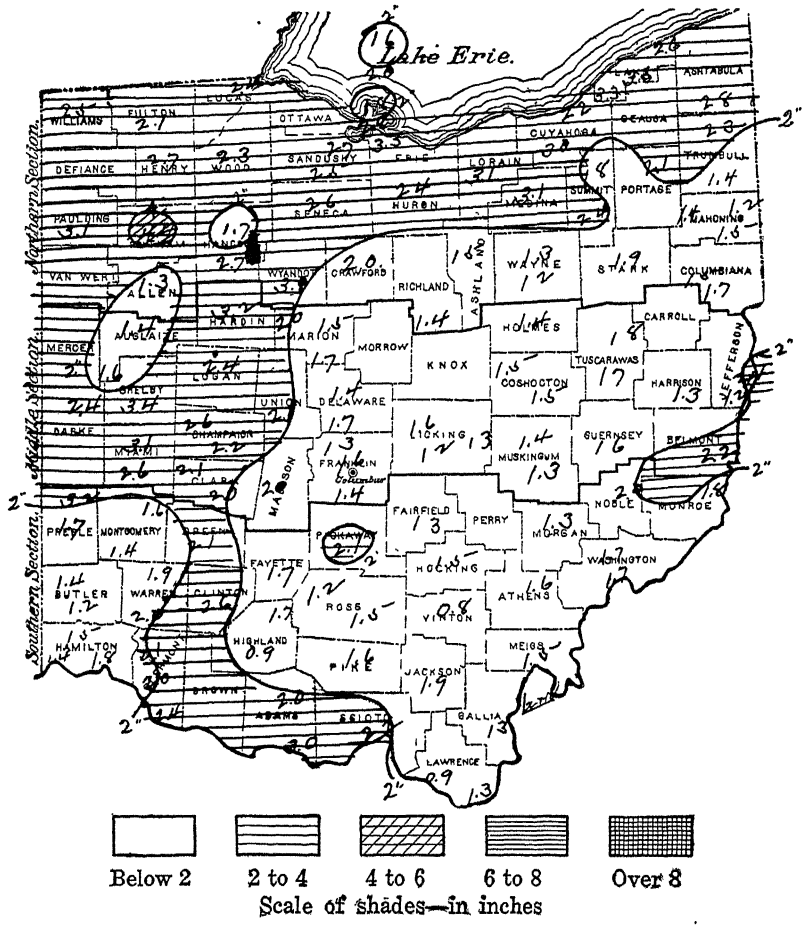

Fig. 43.—The precipitation averaged for the State 1.97 inches, 131 stations reporting. The number of days with precipitation, 0.01 inch or more, averaged only 5, precipitation occurring principally on the 1st and 25th to 29th inclusive, thus giving a period of about 23 days without any rain of consequence. The greatest station amount was 3.54 inches at Hillhouse and the least 0.75 inch at McArthur. The greatest 24-hour fall was 2.76 inches at Sandusky on the 26th-27th. Light, scattered snowflurries occurred on the 28th.

Precipitation departures, October, 1920

Fig. 44.—The average precipitation for the State was 0.59 inch **below** the normal. This deficiency was quite general except for a few local areas, chiefly in the northern division, which division averaged only 0.27 inch below normal while the middle averaged 0.85 inch and the southern 0.91 inch.

Snowfall in October, 1920

Fig. 45.—On the 28th a cool wave overspread the State, attended by light, scattered snowflurries. Only nine stations recorded 0.1 inch or more and quite a number none at all. The greatest amount recorded was 1.3 inches at Bellefontaine, two other stations, Cadiz and Medina, recording an inch each.

Mean temperature, November, 1920

Fig. 46.—The average temperature for the State based on the means for 98 stations was 40.5°; the station means varied from 37.6° at Wauseon to 44.2° at Chilo. The highest temperature recorded was 72° at Portsmouth on the 1st and the lowest was 5° at McArthur on the 18th; the range, therefore, for the State was 67°. The greatest daily range was 48° at Peebles on the 18th.

The temperature departures for November, 1920

Fig. 47.—The temperature averaged, for the State, 0.8° **below** the normal, but this deficiency was not quite general there being a slight excess in the exreme northern tier of counties, including also, Ashland, Huron and Wayne counties.

Precipitation (in inches) for November, 1920

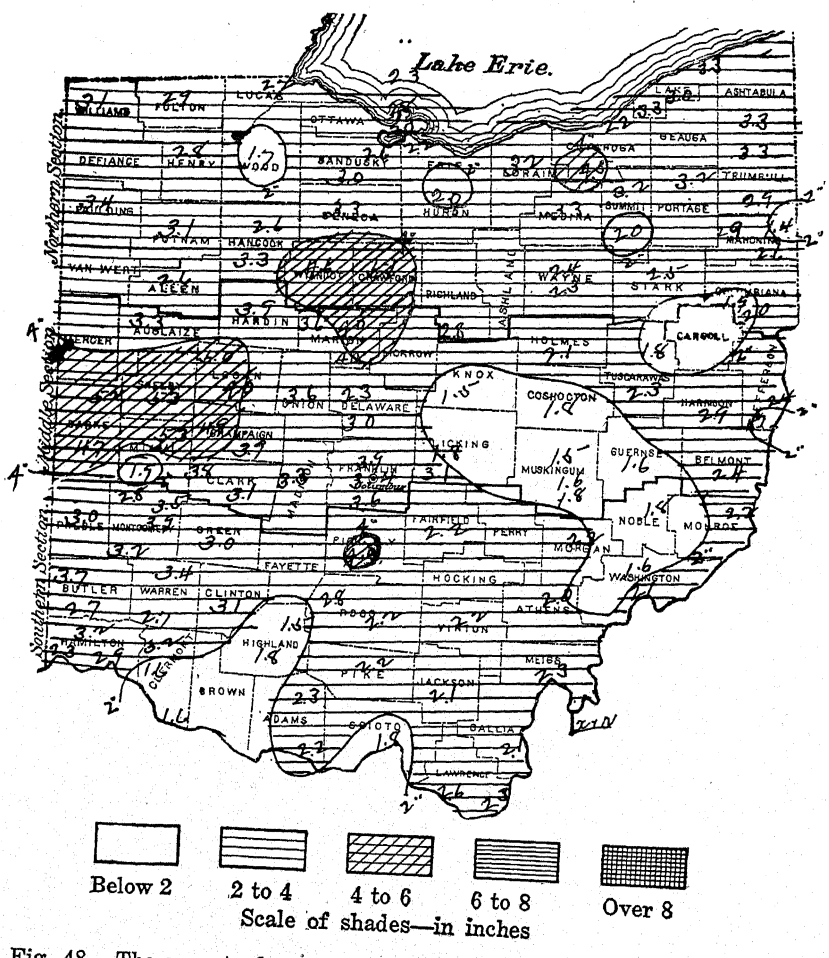

Fig. 48.—The reports from 127 well-distributed stations gave an average for the State of 2.82 inches; the station totals ranged from 1.43 inches at Youngstown to 5.29 inches at Piqua. The greatest amount in any 24 consecutive hours was 2.44 inches at Sidney on the 22d. Precipitation to the amount of 0.01 inch or more fell on an average of 10 days, and these were quite well distributed through the month.

Precipitation departures for November, 1920

Fig. 49.—The precipitation averaged for the State as a whole 0.30 inch above the normal, but, as indicated on the chart above, the excess was not general, being greatest in the middle and least in the southern division.

Snowfall (in inches) in November, 1920

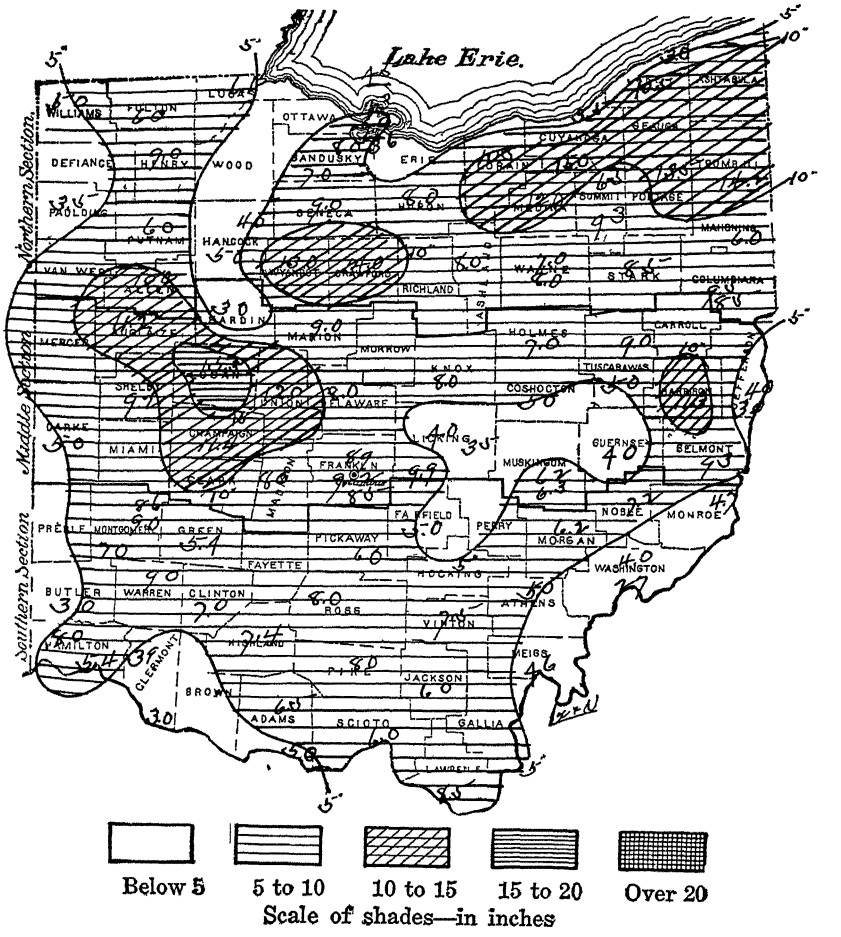

Fig. 50.—The snowfall for the month averaged 7.2 inches but was not evenly distributed over the State as indicated on the chart above. The station amounts varied from 2.7 inches in Washington County to 15.3 inches in Logan County and 15.0 inches in southern Cuyahoga County. Most of the snow fell on the 16th-17th; in fact, the snowstorm of that date was unprecedented for November.

Mean temperature for December, 1920

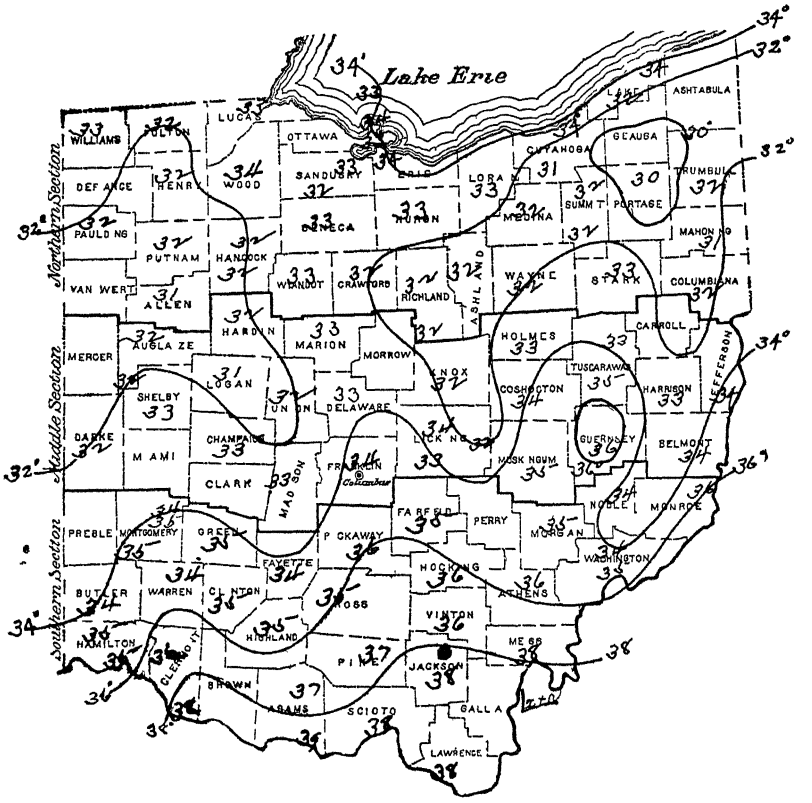

Fig. 51.—The average temperature for the State, based on reports from 96 stations, was 33 8°; the station means ranged from 30 2° at Hiram to 39 2° at Green. A cool wave overspread the State on the 24th and culminated on the 28th in the only real cold wave of the month The highest temperature recorded during the month was 68° at Portsmouth on the 13th and the lowest was -8° at Paulding on the 28th, giving an extreme range of 76°. The greatest daily range was 43° at Toboso on the 21st.

Temperature departures for December, 1920

Fig 52.—The mean temperature for the State was 2 9° above the normal, the excess being both general and quite evenly distributed over the State. The excess averaged 3 1° in the northern division, 2.8° in the middle and 2.5° in the southern.

Precipitation (in inches) in December, 1920

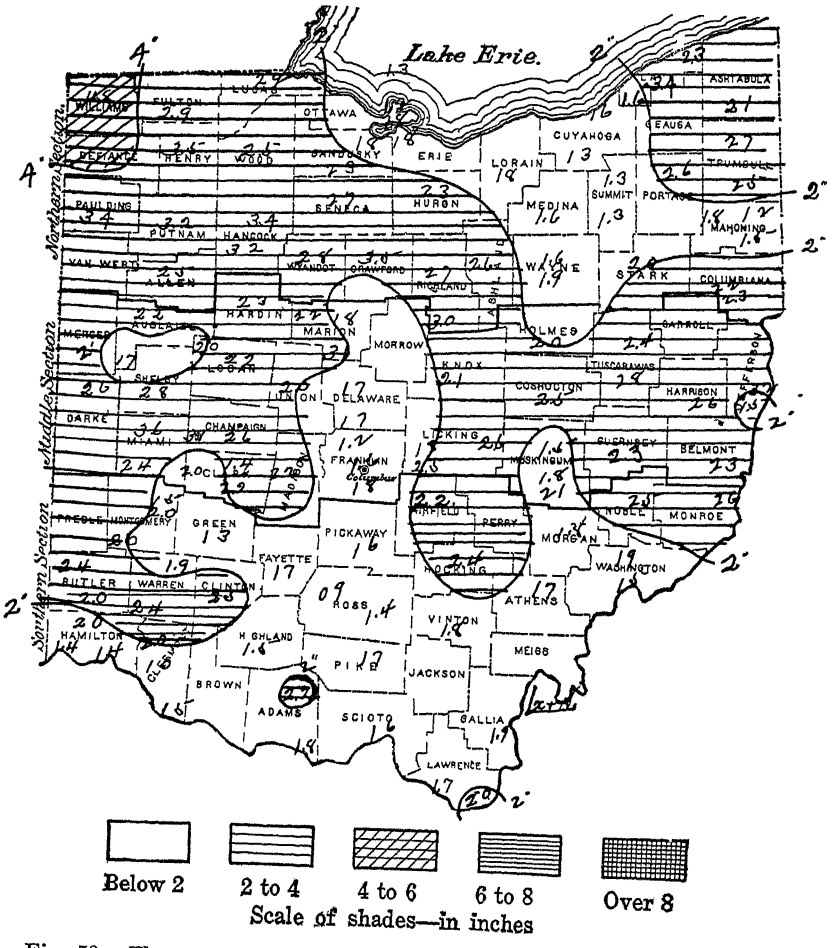

Fig. 53.—The precipitation for the entire State averaged 2.14 inches, 126 station reporting; the station totals ranged from 0.93 inch at Frankfort to 4.75 inches at Montpelier. The greatest 24-hour fall was 1.19 inches at Brilliant on the 1st. The number of days with 0.01 inch or more of precipitation averaged 12, precipitation occurring at one or more stations every day in the month except the 8th.

Precipitation departures (in inches) in December, 1920

Fig. 54.—The precipitation averaged, for the State as a whole, 0.57 inch **below** the normal, the deficiency being greatest in the southern and least in the northern division. In fact there was a slight excess, as shown above, in a number of the northwestern counties and in Lake County.

Snowfall (in inches) in December, 1920

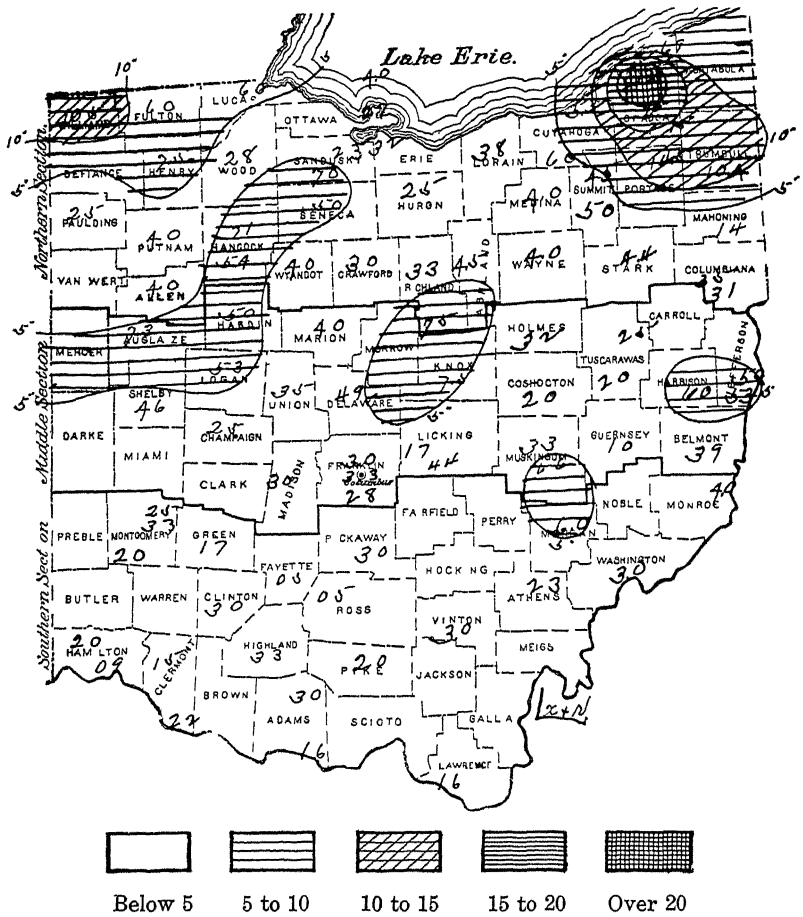

Fig. 55.—The snowfall averaged for the State 4.1 inches, by far the greater portion falling over the northern half of the State. The fall was least in the southwestern and greatest in the northeastern counties. The station amounts ranged from one-half inch to 21.5 inches.

The mean annual temperatures for 1920

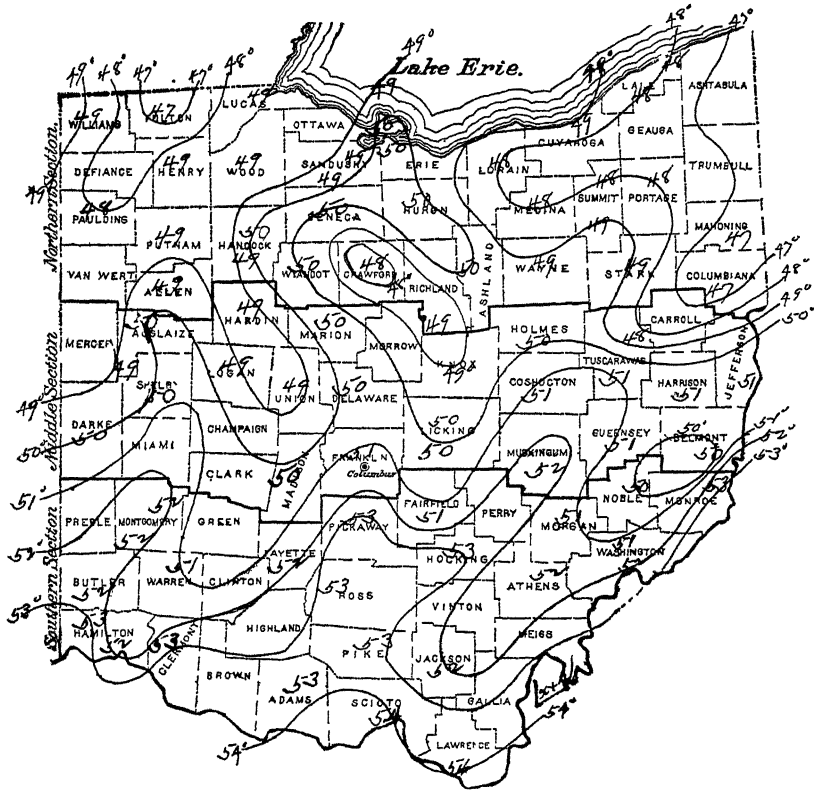

Fig. 56.—The State average for the year was 50.3°; the station annual means varied from 46.9° at Canfield to 54.0° at Ironton and Portsmouth. The highest temperature reported during the year was 98° at Clarington, Findlay, Frankfort, Peebles, Napoleon and Wapakoneta; the lowest was -11° at Paulding. The extreme range for the State was, therefore, 109.

Temperature departures for the year, 1920

Fig. 57.—The average temperature for the State for the year (50.3°) was 0 6° **below** the normal for the year. The deficiency was almost general, only seven stations reporting a slight excess, and was remarkably evenly distributed over the State.

Precipitation (totals in inches and tenths), 1920

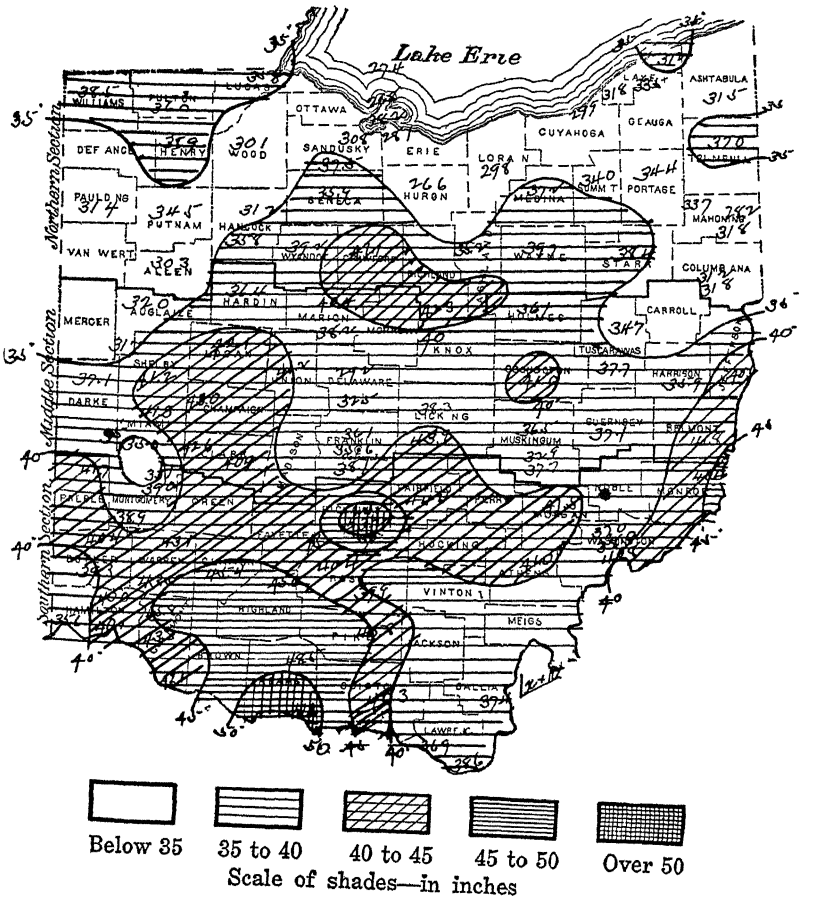

Fig 58.—The precipitation for the year averaged, for the entire State, 37.49 inches. The smallest station amount was 26 64 inches at Norwalk and the largest station amount was 63 19 inches at Circleville The greatest monthly amount was 9.99 inches at Circleville in August and the least monthly amount was a T. (trace) at Findlay in February. The average number of days with rain (0.01 inch or more) was 117.

Precipitation departures (in inches) for the year, 1920

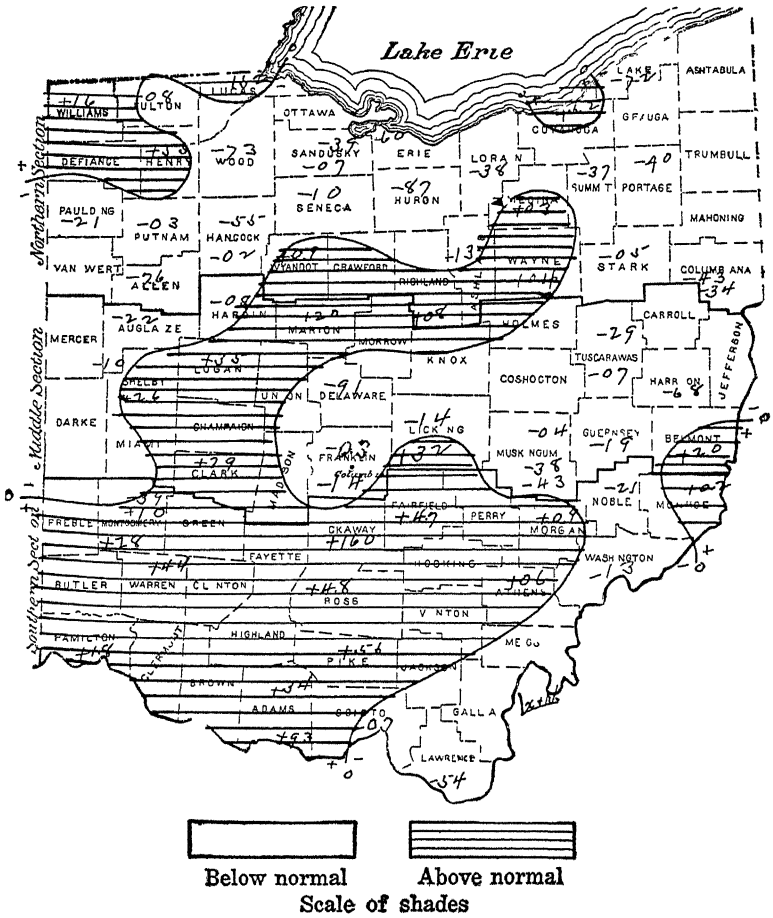

Fig. 59.—The precipitation for the State averaged 0.59 inch **below** the normal for the year but the deficiency was not general as shown on the above chart. Note the heavy excesses in the lower Scioto Valley. Considered by divisions, it will be noted that there was a rather marked (2.13 inches) deficiency in the northern division, a less decided (1.05 inches) in the middle and a rather marked **excess** in the southern division.

Snowfall (inches and tenths) for the year 1920

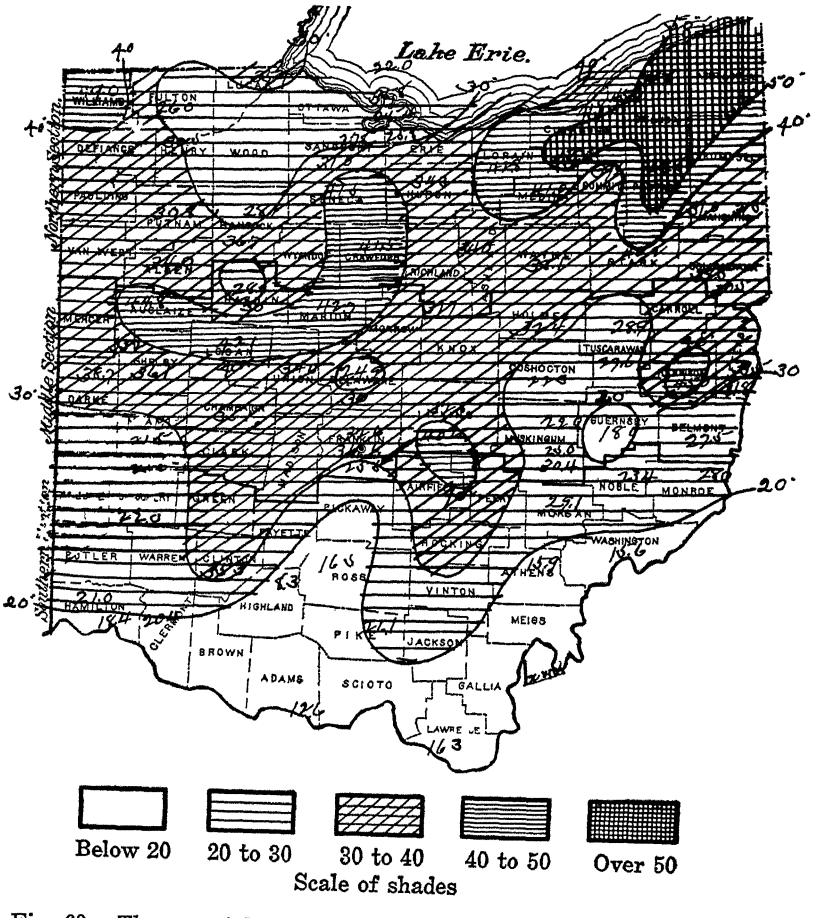

Fig. 60.—The snowfall for the year averaged for the entire State 30.4 inches, the greatest local amount being 68.8 inches in Portage County and the least, 8.3 inches, in Highland County. The greatest monthly amount was 23.0 inches at Tiffin in January.

Date of the last killing frost in the spring, 1920

Fig. 61.—Note that in general the last killing frosts of the spring of 1920 occurred in the Miami Valley and in the counties along the Ohio River up as far as Scioto County and along the lake shore about the middle of April and in the remainder of the State about a month later.

Dates of the first killing frost in autumn, 1920

Fig. 62.—Note that the earliest frost recorded was on October 2d in Pike County and on the morning of October 3d in Licking and Vinton counties; also that the latest frosts occurred along the lake shore on November 11 or 12, suggesting the moderating influence of the lake. This influence, however, does not extend inland very far as frosts occurred in the lake counties as early as October 7.

Length (in days) of the crop-growing season, 1920

Fig. 63.—Although the last killing frosts in the spring occurred somewhat later than usual, yet the first killing frosts of the autumn were delayed considerably beyond the average date, thus giving a crop-growing season as long as or longer than usual. As a whole the season was very fine for plant growth.

CLIMATOLOGICAL SUMMARY FOR OHIO, 1920

Month	Temperature								Precipitation			Number of days				Wind prevailing direction
	Monthly mean	Departure from normal	Highest	Date	Lowest	Date	Range	Greatest daily range	Average	Departure from normal	Average snowfall	With precipitation .01 inch or more	Clear	Part cloudy	Cloudy	
January	22.1	—6.7	65	20	—11	25	76	48	2.61	—0.67	10.6	10	10	7	14	SW
February	27.4	—0.4	66	2	— 7	19	73	46	1.05	—1.65	4.1	8	7	7	15	W
March	41.7	+3.0	84	2*	— 4	1	88	51	2.72	—0.86	1.1	9	13	8	10	SW
April	45.8	—4.1	90	22	14	6	76	55	5.78	+2.58	3.3	16	5	9	16	SW
May	58.3	—2.6	94	30*	25	15	69	50	2.45	—1.36	T	7	16	8	7	NE
June	68.9	—0.1	98	10*	38	6	60	45	4.53	+1.01	0	12	13	10	7	SW
July	70.4	—3.4	98	23	40	5	58	45	4.50	+0.44	0	10	15	10	6	SW
August	70.3	—1.4	95	5	40	2*	55	41	4.36	+0.94	0	11	10	12	9	SW
September	66.5	+0.8	95	26	34	30	61	46	2.56	—0.16	0	7	18	7	5	SW
October	58.5	+5.3	89	19*	21	31	68	51	1.97	—0.59	T	5	19	6	6	SW
November	40.4	—0.8	72	1	5	18	67	48	2.82	+0.30	7.2	10	7	7	16	SW
December	33.8	+2.9	68	13	— 8	28	76	43	2.14	—0.57	4.1	12	6	7	18	SW
Annual	50.3	—0.6	98	June 10	—11	Jan. 25	109	55	37.49	—0.59	30.4	117	139	98	129	SW

*And other dates.

METEOROLOGICAL SUMMARY

EXPLANATION OF TABLES

The following tables contain statistics of temperature, rainfall, etc., for the year, and are complied from data obtained from daily observations. T stands for "trace"—less than 0.01 inch of rainfall. Temperature is given in degrees Fahrenheit.

Table I shows the daily rainfall at the Ohio Experiment Station at Wooster during the year in inches and hundredths.

Table II shows the daily mean temperature for each day of 1920 and the monthly mean temperature with the 33-year average.

Table III gives the monthly mean temperature at the Station with the 33-year average for the same.

Table IV gives the monthly mean rainfall at the Station with the 33-year average for the same.

Table V gives the monthly mean temperature for the State for 1920 with the 33-year average.

Table VI gives the monthly mean rainfall for 1920 with the 33-year average for the State.

Table VII gives the monthly mean temperature and rainfall for the Station and State for 1920 with the 33-year average.

Table VIII contains the mean temperature, the highest and lowest temperatures with the range of temperature for each month; the number of clear, partly cloudy and cloudy days; the rainfall, snowfall and prevailing direction of wind, for both the Station and State for 1920.

Table IX contains the principal points of interest on temperature, rainfall, and state of weather at the Station and for the State during the year, and a grand summary for 33 years.

Table X gives the date of the last killing frost in the spring, and the first killing frost in autumn, length of the growing season, also the number of times the mercury fell below zero in each winter month since 1894 at Wooster.

Table XI gives the highest and lowest temperature for each month during the last 33 years for both the Station and State.

Table XII gives the total and average precipitation at the different district and county experiment farms.

Table XIII gives the monthly mean temperature at the district experiment farms.

Table XIV gives the daily evaporation and wind movement at the Experiment Station at Wooster from 1916 to 1920 inclusive.

TABLE I.—DAILY RAINFALL AND MELTED SNOW IN INCHES FOR 1920 AT THE EXPERIMENT STATION

Date	January	February	March	April	May	June	July	August	September	October	November	December	Date
1	T					T		.67		.29		.43	1
2	T			.07		.06	.11	.03		T	.26	.05	2
3	T					1.75	.39						3
4	T	T	T	.20		T	T					.02	4
5		.10	.35	.02		.04			1.05			.19	5
6			T	.08		T	.01		.06				6
7	T		T	.03			.89	.90			.12		7
8	.20			.05		.15	.01	T			T		8
9	.70	T		T			.26	.99	T		.02		9
10		T						.25	.10		T	.11	10
11	.20	T	.11		.22		.03	.02					11
12		T	.36	.37	.45	.02	.15	.06					11
13			.10	.40	.42	.69		.02				.01	13
14		.40					.37	.42				.35	14
15	.10			.07		.04	.48	.15			T	.05	15
16	.40		.65	1.19		.44		T	T		.15	.15	16
17	T		T	.49		2.53		T			.55	T	17
18		.05		.06	.08		.44					T	18
19	.20		.28	.04	.12		.01	.02				.05	19
20	T		.13	1.04	.11	.22		T				T	20
21	.10	.09		.32	.19	.32		T				T	21
22				T		.07	.10	.21			.51	.10	22
23	.25	.12		.27		.02					.03	.07	23
24	.32	T		T		.84			.01		.14	T	24
25		.05								.27	.15		25
26			T	.04						.18	T	.05	26
27				.14				1.93	.77	.39	.30	.30	27
28		.10		.09				.05	.10	.07			28
29				.08				.97		.10			29
30			.10	.61		1.07		.48	.03		.22		30
31					T		.42	.08					31
Total	2.47	0.91	2.08	5.67	1.59	8.26	3.67	7.25	2.12	1.30	2.45	1.93	
Average	.079	.031	.067	.189	.051	.275	.118	.234	.070	.041	.081	.062	

TABLE II.— MEAN TEMPERATURE FOR EACH DAY OF 1920 AT THE EXPERIMENT STATION—Degrees

Date	January	February	March	April	May	June	July	August	September	October	November	December	Date
1	28.5	25.5	24.5	59.0	47.5	71.0	70.5	62.0	65.0	45.0	51.5	39.0	1
2.	7.5	40.0	28.5	56.5	45.5	73.0	73.0	58.0	55.5	50.5	49.0	38.5	2
3	4.0	38.5	37.0	46.5	43.5	65.5	73.0	58.5	56.0	55.5	40.0	43.5	3
4	9.0	29.0	44.5	42.5	44.5	58.5	68.5	67.0	61.0	62.5	44.5	50.0	4
5	9.5	27.0	31.5	37.0	46.5	54.5	60.5	73.0	64.0	55.0	46.0	43.5	5
6	22.5	28.0	12.5	27.0	51.0	56.5	69.0	74.0	69.5	52.5	43.5	35.0	6
7	32.5	29.0	15.0	31.5	51.0	59.0	72.0	74.0	63.5	47.5	47.0	32.0	7
8	32.5	29.0	19.0	29.0	53.5	65.5	66.5	72.5	62.5	52.5	47.5	31.5	8
9	25.5	32.5	37.0	27.5	53.0	65.0	65.0	75.0	67.0	55.5	54.0	34.0	9
10	22.0	30.5	47.5	31.5	63.5	75.5	65.5	71.5	67.5	61.5	48.5	35.5	10
11	28.5	29.0	46.5	39.5	62.0	80.0	69.0	69.5	69.0	61.0	43.0	36.0	11
12.	22.5	32.5	53.5	44.0	49.0	78.0	72.5	70.5	73.5	68.0	30.0	43.0	12
13	27 0	26.0	33.0	29.5	49.0	78.0	74.0	75.0	64.0	63.0	24.5	51.5	13
14	19.5	30.5	27.5	38.0	42.5	73.5	75.0	72.0	64.5	62.0	26.0	49.0	14
15	17.5	13.0	47.5	45.0	43.0	77.0	72.0	74·0	65.5	64.0	29.5	35.0	15
16	17.5	7.0	49.5	47.0	48.0	76.5	64.0	75.0	69.0	66.0	29.5	27.5	16
17	17.5	22.5	40.0	45.0	59.0	65.0	66.0	70.0	59.0	60.0	30.5	27.0	17
18	9.5	27.0	34.0	43.5	59.5	58.0	73.5	71.0	61.5	60.5	33.5	25.0	18
19	12.5	15.5	45.5	46.5	64.0	59.0	61.0	72.0	61.5	64.0	36.5	21.5	19
20	24.5	19.0	34.5	50.0	65.5	61.5	64.0	73.0	58.5	65.5	49.0	15.5	20
21	30.0	27.5	37.5	61.5	63.0	63.5	70.5	74.0	69.0	66.0	46.5	20.0	21
22	13.5	31.5	45.0	61.5	62.0	62.0	73.5	67.0	69.0	63.5	50.0	31.0	22
23	25.5	29.0	50.0	60.5	66.5	65.5	76.0	65.0	69.0	61.5	39.0	37.0	23
24	22.0	27.0	54.0	45.5	68.0	61.5	79.5	62.0	72.0	61.0	39.5	25.0	24
25	8.0	20.5	61.0	40.5	62.5	60.5	61.5	63.0	77.0	61.5	38.5	16.5	25
26	19.0	12.0	63.5	41.5	63.5	65.0	59.0	65.0	73.5	62.5	35.0	25.5	26
27	34.5	14.5	55.0	56.0	64.5	68.5	59.5	68.0	74.0	61.0	37.0	27.5	27
28	27.0	25.0	54.5	48.5	65.5	74.5	65.0	68.5	64.0	47.5	39.0	15.0	28
29	21.5	22.0	56.0	51.0	58.0	75.0	70.5	73.0	59.0	38.0	37.5	21.5	29
30	33.5	.....	50.5	51.5	65.0	74.5	77.5	73.0	48.0	41.0	36.5	29.0	30
31	15.0	.....	54.5	.....	69.0	.....	75.0	69.5	.....	49.0	.....	32.0	31
Monthly Mean.	20.6	25.5	41.6	44.4	56.4	67.4	69.1	69.5	65.0	57.6	40.0	32.0	
33-yr. Average	27.1	26.4	37.2	48.1	58.2	67.4	71.3	69.7	63.1	51.7	39.8	30.1	

TABLE III.—MONTHLY MEAN TEMPERATURE FOR 33 YEARS AT WOOSTER—Degrees

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	23.0	28.8	31.7	46.3	57.7	69.8	70.1	67.8	57.1	44.9	40.7	31.4	47.4	1888
1889.....	31.1	22.9	38.7	47.1	57.8	64.5	70.0	66.0	60.8	45.3	39.3	40.7	48.6	1889
1890.....	36.0	36.6	30.9	48.4	56.0	69.8	70.5	65.8	59.6	50.0	31.3	28.8	49.7	1890
1891.....	30.0	34.0	32.0	49.0	52.0	68.0	68.0	71.0	68.0	49.0	38.0	37.0	49.0	1891
1882.....	22.0	33.0	33.0	47.0	47.0	70.0	70.0	69.0	61.0	49.0	38.0	28.0	48.0	1892
1893.....	18.0	28.0	38.8	50.1	57.6	69.3	72.0	67.9	63.2	52.3	37.7	30.9	48.7	1893
1894	32.8	26.7	43.5	50.5	57.5	67.9	71.4	69.2	66.1	52.3	36.5	32.9	50.6	1894
1895.....	21.9	17.9	32.4	49.5	59.4	69.9	68.6	70.9	66.5	44.2	40.4	32.8	47.8	1895
1896.....	27.9	29.2	29.8	54.6	64.5	65.6	70.2	68.5	60.6	45.8	44.4	30.6	49.3	1886
1897	24.0	30.0	39.3	47.2	53.4	64.3	73.2	67.0	66.7	55.9	40.7	31.8	49.4	1897
1898.....	31.6	27.2	43.3	45.3	58.2	68.7	74.5	71.1	66.2	52.6	38.4	27.9	50.4	1898
1899.....	26.6	21.3	35.0	52.1	60.0	69.4	70.0	71.0	61.6	55.0	43.2	29.0	49.5	1899
1900.....	30.2	25.0	31.8	47.8	61.5	68.5	72.6	74.1	67.1	58.9	40.6	30.7	50.7	1900
1901.....	28.3	20.0	39.1	45.2	57.9	69.1	75.9	71.6	63.3	51.7	36.6	26.1	48.7	1901
1902.....	26.3	21.0	41.2	46.2	61.2	65.6	73.0	66.4	62.7	53.9	47.3	28.7	49.5	1902
1903.....	24.4	29.0	45.7	48.0	62.2	63.0	71.8	68.8	64.4	58.2	36.8	21.7	49.1	1903
1904.....	18.6	20.5	37.6	42.8	59.4	67.0	69.8	66.7	64.2	50.4	39.6	28.1	47.1	1904
1905.....	22.6	19.8	41.2	46.8	59.2	68.0	71.6	70.0	63.8	51.0	38.3	33.1	48.8	1905
1906.....	35.9	25.8	30.2	51.9	59.9	68.8	71.0	74.2	67.7	51.4	40.4	31.2	50.7	1906
1907.....	30.8	24.6	44.9	41.7	52.8	64.6	69.9	68.6	65.0	47.4	38.5	32.1	48.4	1907
1908.....	28.7	26.8	43.1	50.1	62.2	68.1	72.4	69.0	66.4	53.0	41.0	31.7	51.0	1908
1909.....	31.7	33.6	35.9	48.4	57.9	69.3	69.6	70.4	62.2	47.8	48.3	25.2	50.0	1909
1910.....	26.7	23.8	47.2	50.2	54.7	64.3	72.6	70.9	65.3	54.9	34.8	24.4	49.2	1910
1911.....	31.3	33.8	35.0	46.5	63.5	68.9	71.7	70.6	65.2	51.8	36.7	34.7	50.8	1911
1912.....	16.6	20.5	30.3	50.5	61.1	64.6	71.5	67.1	65.6	52.4	41.0	33.1	47.8	1912
1913.....	34.2	25.1	38.5	48.9	58.0	67.4	72.4	71.5	62.5	52.2	42.4	33.7	50.6	1913
1914.....	31.9	20.4	34.5	48.4	59.8	68.4	71.0	71.5	62.2	55.8	40.9	25.9	49.2	1914
1915.....	24.4	33.2	31.2	53.2	55.0	64.8	69.2	66.1	65.6	53.4	42.4	28.6	48.9	1915
1916.....	35.3	24.7	32.0	46.8	60.2	62.9	74.6	72.2	62.1	50.1	40.4	26.2	48.9	1916
1917...	25.6	21.3	36.3	46.7	52.7	66.3	71.8	70.7	60.1	45.4	36.5	20.7	46.3	1917
1918.....	14.2	29.6	43.1	48.6	65.0	67.2	70.4	75.1	57.4	55.5	41.9	37.8	50.5	1918
1919.....	31.9	31.7	39.7	48.7	58.1	73.2	73.6	69.3	65.1	57.8	40.6	24.4	51.2	1919
1920.....	20.6	25.5	41.6	44.4	56.4	67.4	69.1	69.5	65.0	57.6	40.0	32.0	49.1	1920
Average	27.1	26.4	37.2	48.1	58.2	67.4	71.3	69.7	63.1	51.7	39.8	30.1	49.2	

TABLE IV.—MONTHLY RAINFALL FOR 33 YEARS AT WOOSTER—Inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual	Date
1888.....	3.34	2.43	3.34	2.48	3.82	2.31	4.54	4.35	1.92	3.18	4.95	1.39	38.05	1888
1889.....	4.33	2.42	2.13	1.58	2.97	4.86	6.73	1.98	4.05	1.36	3.53	3.93	39.87	1889
1890.....	4.71	6.20	4.37	3.10	6.37	6.92	2.67	4.65	5.13	7.45	2.62	1.74	53.94	1890
1891.....	2.91	4.83	3.71	1.66	2.24	7.13	3.24	1.85	.93	1.33	5.73	2.92	38 48	1891
1892.....	2.67	2.67	3.38	2.44	7.69	7.89	4.73	2.69	3.20	.37	2.06	2.74	41.53	1892
1893.....	4.01	6.33	1.89	5.66	6.28	2.51	1.38	1.53	1.85	5.15	2.49	1.50	40.58	1893
1894.....	2.19	3.37	2.36	1.74	4.41	2.23	1.38	.76	4.25	2.53	2.41	3.15	30.78	1894
1895.	3.97	.41	1.98	1.69	1.38	4.20	2.19	2.30	3.92	1.15	4.21	3 51	30.91	1895
1896..	1.73	2.27	3.67	3.34	3.41	3.98	8.15	1.96	5.16	.71	1.78	3.04	39.10	1896
1897.	3.42	2.64	2.81	2.75	4.97	2.98	3.89	3.86	.29	.89	5.76	2.50	36.76	1897
1898.....	4.10	2.27	6.44	2.56	4.60	2.70	6.79	5.53	2.15	4.28	4.14	2.29	47.85	1898
1899.....	3.29	1.64	3.95	1.28	4.42	1.95	3.73	.53	5.56	2.21	1.59	2.78	32.93	1899
1900	2.78	2.74	2.25	1.70	2.23	3.71	5.65	5.97	2.19	2.10	4.30	.99	36.61	1900
1901.....	1.58	1.20	3.09	2.46	4.32	4.82	3.32	3.58	5.64	.79	1.62	3.47	35.89	1901
1902	.63	.83	2.99	1.55	2.57	5.55	5.26	1.87	3.49	1.52	2.62	4.07	32.95	1902
1903.....	3.54	3.69	3.29	4.55	1.59	3.69	4.61	6.58	2.07	2.63	2.25	1.95	40.44	1903
1904.....	5.27	3.90	6.22	6.59	4.45	1.67	4.93	2.03	2.27	.87	.40	2.68	41.28	1904
1905.....	1.83	1.36	2.61	2.51	5.97	7.50	5.14	4.47	5.10	2.32	2.04	2.08	42.93	1905
1906	1.93	1.06	3.57	2.27	2.98	3.81	4.93	7.38	5.16	3.55	2.39	3.79	42.82	1906
1907.....	6.92	1.09	5.80	2.69	3.48	3.81	3.96	2.04	3.13	2.34	1.33	3.41	40.00	1907
1908.....	1.96	3.89	5.02	3.64	4.56	2.17	3.44	3.17	.73	1.22	1.09	3.05	33.94	1908
1909.....	2.95	5.22	3.02	3.92	4.06	6.44	4.05	5.21	1.73	2.16	2.91	2.55	44.22	1909
1910.....	5.29	4.41	.54	3.22	4.87	2.57	1.12	.95	2.59	5.24	2.36	2.29	35.45	1910
1911.....	4.13	2.25	3.26	3.71	2.45	3.78	3.36	5.19	6.53	5.45	2.50	4.54	47.15	1911
1912.....	2.30	1.58	3.77	5.58	5.65	2.21	7.46	7.32	4.41	2.18	1.79	2.35	46.70	1912
1913.....	7.86	2.43	11.84	3.66	3.04	.97	4.07	4.75	3.70	3.17	3.77	1.92	51.18	1913
1914.....	1.64	1.95	2.37	4.33	2.98	6.33	1.23	5.00	2.87	3.33	1.68	3.67	37.38	1914
1915.....	2.32	2.04	1.17	1.41	2.80	6.32	8.35	3.93	4.90	2.85	2.65	3.32	42.05	1915
1916.....	4.98	1.73	4.72	2.92	2.95	5.05	2.21	2.26	1.07	2.03	2.58	2.43	34.93	1916
1917.....	3.12	1.30	3.66	2.00	3.94	4.84	2.20	2.44	1.48	4.76	.44	1.64	31.82	1917
1918.....	2.66	2.39	2.01	2.96	4.88	1.91	2.68	3.03	3.27	2.82	1.43	3.71	33.75	1918
1919.....	1.20	.96	3.82	2.66	6.17	2.62	6.42	7.37	1.46	6.00	2.71	1.69	43.08	1919
1920.....	2.47	0.91	2.08	5.67	1.59	8.26	3.67	7.25	2.12	1.30	2.45	1.93	39.70	1920
Average.	3.27	2.56	3.55	3.04	3.94	4.17	4.17	3.75	3.16	2.70	2.62	2.70	39.55	

TABLE V.—MONTHLY MEAN TEMPERATURE FOR 33 YEARS FOR THE STATE—Degrees

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	24.3	30.5	34.2	49.2	58.8	70.4	72.1	70.4	60.3	47.9	42.9	33.3	49.5	1888
1889.....	33.3	25.8	40.2	49.9	60.2	66.7	72.5	69.1	62.9	47.9	41.0	43.8	51.1	1889
1890.....	38.8	39.4	34.5	51.3	59.2	73.3	73.0	69.8	62.1	52.7	42.2	31.2	52.2	1890
1891.....	33.0	36.0	35.0	52.0	58.0	71.0	69.0	70.0	67.0	51.0	40.0	39.0	51.8	1891
1892.....	24.0	35.0	35.0	49.0	56.0	73.0	73.0	71.0	64.0	52.0	38.0	29.0	50.2	1892
1893.....	18.0	29.0	38.0	50.2	58.3	70.6	74.5	70.7	65.2	53.7	39.3	32.7	50.0	1893
1894.....	33.7	28.9	45.1	50.6	60.0	71.3	74.3	71.2	67.8	53.9	37.5	33.9	52.4	1894
1895.....	23.4	19.6	35.5	51.7	61.1	72.0	71.6	73.5	66.0	46.9	41.9	33.9	50.0	1895
1896.....	29.4	30.5	32.4	56.9	67.9	69.5	73.2	71.8	62.7	49.0	45.1	32.9	51.8	1896
1897.....	25.5	32.4	41.5	49.3	56.3	68.1	75.5	69.4	66.9	58.1	42.2	32.8	51.5	1897
1898.....	32.4	30.0	45.0	47.2	61.0	71.9	76.0	73.5	67.8	54.1	38.8	28.8	52.2	1898
1899.....	27.8	21.6	36.9	53.3	63.3	71.5	74.1	73.7	64.1	57.4	43.9	30.2	51.5	1899
1900.....	31.1	26.0	32.9	50.1	62.9	69.8	74.1	76.3	69.3	60.5	41.6	31.6	52.2	1900
1901.....	29.2	21.1	39.5	46.7	59.0	70.9	78.1	73.1	64.8	53.8	37.7	27.9	50.2	1901
1902.....	27.3	23.3	41.9	48.2	62.6	66.9	74.0	68.9	63.6	54.6	48.5	29.4	50.7	1902
1903.....	27.1	29.9	46.7	49.9	63.9	64.4	72.9	70.7	65.6	54.0	37.2	23.4	50.5	1903
1904.....	20.7	22.9	39.7	44.4	60.7	68.4	71.4	68.8	65.5	52.2	40.5	28.0	48.6	1904
1905	22.7	20.8	42.7	48.5	60.7	69.2	73.0	71.7	65.3	52.6	39.6	32.9	50.0	1905
1906.....	35.7	27.3	31.3	52.1	61.3	69 8	72.1	74.6	68.9	52.7	41.1	32.3	51.6	1906
1907.....	32.2	26.0	45.9	42.5	54.5	65.6	72.6	69.5	65.5	48.8	39.1	33.0	49.6	1907
1908.....	29.1	27.7	43.4	51.0	62.8	69.2	73.9	71.2	68.0	54.1	41.7	33.1	52.1	1908
1909.....	32.2	34.7	37.3	49.1	58.7	70.1	70.7	71.9	63.2	48.8	48.9	25.4	50.9	1909
1910.....	27.6	25.5	48.2	51.5	56.0	65.9	73.8	71.4	66.3	56.7	36.3	25.5	50.4	1910
1911.....	32.8	34.5	37.4	47.7	66.3	70.9	74.0	72.5	67.5	53.3	37.6	36.3	52.6	1911
1912.....	17.9	22.4	32.9	51.9	62.5	66.6	73.4	69.2	67.4	54.8	42.2	33.8	49.6	1912
1913.....	36.0	26.7	40.1	50.0	60.3	69.8	74.5	73.3	64.1	54.1	44.4	34.5	52.3	1913
1914... .	33.4	22.1	36.0	50.1	62.2	71.1	74.0	72.8	63.4	56.9	42.1	27.0	50.9	1914
1915... .	26.3	35.2	33.2	54.8	57.8	66.8	71.5	67.5	67.0	55.4	44.3	30.4	50.8	1915
1916.....	35.5	26.5	34.7	49.3	61.8	64.7	76.9	74.4	63.7	53.2	42.6	29.1	51.0	1916
1917.....	28.0	25.4	39.6	48.7	54.1	66.9	72.3	71.3	61.9	46.7	38.7	21.4	47.9	1917
1918.....	14.9	31.0	44.0	48.7	66.4	68.8	71.3	76.6	58.4	56.6	42.3	39.3	51.5	1918
1919.....	32.9	32.5	41.0	49.7	58.6	74.2	75.1	70.5	66.7	59.5	41.2	25.7	52.3	1919
1920.....	22.1	27.4	41.7	45.8	58.3	68.9	70.4	70.3	66.5	58.5	40.4	33.8	50.3	1920
Average	28.4	28.1	38.9	49.8	60.3	69.3	73.3	71.5	65.1	53.4	41.2	31.4	50.9	

TABLE VI.—MONTHLY RAINFALL FOR 33 YEARS FOR THE STATE—Inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	3.65	1.74	3.55	1.99	3.77	3.41	4.40	5.16	2.27	3.98	4.25	1.47	39.64	1888
1889.....	3.13	1.35	1.38	1.79	3.71	4.13	4.19	1.50	3.62	1.78	4.02	2.81	33.41	1889
1890.....	4.94	5.25	5.29	3.45	5.52	4.50	1.99	4.66	5.56	4.27	2.53	2.37	50.33	1890
1891.....	2.82	4.91	4.19	2.13	2.20	4.82	3.82	3.07	1.50	1.76	5.00	2.39	38.61	1891
1892.....	2.11	3.03	2.86	3.32	6.32	5.61	3.80	2.99	2.36	.73	2.32	1.71	37.16	1892
1893.....	2.56	5.13	2.09	6.37	4.67	3.34	2.49	2.17	1.57	4.24	2.09	2.61	39.63	1893
1894	2.14	2.79	2.16	2.31	4.00	2.65	1.56	1.67	3.31	2.01	2.17	2.98	29.75	1894
1895	4.00	.69	1.59	2.11	1.80	2.47	2.00	2.96	1.66	1.22	4.11	3.85	28.46	1895
1896.....	1.67	2.21	3.34	2.78	2.67	4.81	8.11	3.38	5.13	1.20	2.63	1.65	39.58	1896
1897.....	1.93	3.64	5.17	3.27	3.63	2.85	4.65	2.72	.78	.64	6.62	2.39	38.59	1897
1898.....	5.25	2.32	6.23	2.38	4.10	2.86	3.98	4.58	2.56	3.72	3.17	2.71	43.78	1898
1899.....	3.01	2.11	4 64	1.61	4.32	2.94	4.17	1.82	2.68	2.14	1.72	3.16	34.32	1899
1900.....	2.37	3.46	2.35	1.89	2.40	3.01	4.62	3.68	1.76	1.89	4.15	1.24	32.82	1900
1901	1.70	1.24	2.66	3.40	3.96	4.44	2.72	3.33	2.86	.73	1.53	3.79	32.36	1901
1902.....	1.42	.88	2.76	2.21	3.09	7.48	4.69	1.67	4.55	2.28	2.60	3.95	37.58	1902
1903.....	2.36	4.95	3.51	4.01	2.82	4.02	3.67	3.20	1.52	2.62	2.10	2.07	36.85	1903
1904.....	3.85	2.69	5.67	3.53	3.79	2.88	4.13	2.74	1.95	1.50	.37	3.09	36.19	1904
1905.....	1.73	1.58	2.50	3.10	5.63	4.72	3.93	4.46	2.86	3.65	2.63	2.29	39.08	1905
1906	1.98	1.16	3.97	1.89	2.17	3.42	5.14	4.77	2.92	3.19	2.59	3.68	36.88	1906
1907.....	6.06	.85	5.55	2.74	3.47	4.57	5.36	2.48	3.92	2.76	1.93	3.16	42.85	1907
1908.....	1.82	4.10	5.43	3.71	4.72	2.51	4.08	2.59	.58	1.17	1.06	2.32	34.10	1908
1909.....	3.24	5.39	2.77	4.13	4.72	5.86	3.76	3.56	1.78	2.31	2.52	2.62	42.66	1909
1910.....	4.48	4.05	.26	3.49	3.80	2.66	3.17	1.58	4.05	4.19	1.89	2.41	36.03	1910
1911.....	3.90	1.95	2.33	4.35	1.69	3.92	2.40	5.39	4.87	4.99	2.91	3.93	42.63	1911
1912.....	2.12	2.08	4.17	4.47	3.12	3.17	5.70	4.08	3.11	2.44	1.10	2.26	37.82	1912
1913.....	7.01	1.94	8.40	3.35	3.53	1.87	5.20	2.52	2.37	3.36	3.51	1.68	44.75	1913
1914.....	2.30	3.04	2.42	4.01	3.11	3.14	2.19	5.08	1.41	3.42	1.53	3.77	35.42	1914
1915.....	3.40	1.96	1.44	1.42	3.99	4.36	6.32	4.52	4.51	2.39	2.68	3.84	40.83	1915
1916.....	5.07	1.83	4.15	2.35	4.27	4.86	1.92	3.11	2.56	2.12	2.11	2.89	37.24	1916
1917.....	3.78	1.43	3.65	3.38	4.18	4.99	3.88	2.70	1.86	4.81	0.54	1.31	36.51	1917
1918	3.23	2.16	2.49	3.23	4.49	2.68	2.61	3.64	3.75	2.71	2.02	3.53	36.54	1918
1919.....	1.60	1.19	4.04	3.02	4.78	2.88	4.02	4.46	1.90	6.29	4.02	2.13	40.33	1919
1920.....	2.61	1.05	2.72	5.78	2.45	4.53	4.50	4.36	2.56	1.97	2.82	2.14	37.49	1920
Average	3.13	2.55	3.51	3.12	3.72	3.83	3.92	3.35	2.75	2.68	2.64	2.67	37.89	

TABLE VII.—MEAN TEMPERATURE AND RAINFALL AT THE EXPERIMENT STATION AND FOR THE STATE IN 1920 AND FOR 33 YEARS

Temperature—Degrees	January	February	March	April	May	June	July	August	September	October	November	December	Year
Mean temperature at the Station, 1920	20.6	25.5	41.6	44.4	56.4	67.4	69.1	69.5	65.0	57.6	40.0	32.0	49.1
Thirty-three year average temperature at the Station	27.1	26.4	37.2	48.1	58.2	67.4	71.3	69.7	63.1	51.7	39.8	30.1	49.2
Mean temperature for the State, 1920	22.1	27.4	41.7	45.8	58.3	68.9	70.4	70.3	66.5	58.5	40.4	33.8	50.3
Thirty-three year average temperature for the State	28.4	28.1	38.9	49.8	60.3	69.3	73.3	71.5	65.1	53.4	41.2	31.4	50.9
Rainfall—Inches													
Rainfall at the Statian, 1920	2.47	0.91	2.08	5.67	1.59	8.26	3.67	7.25	2.12	1.30	2.45	1.93	39.70
Thirty-three year average rainfall at the Station	3.27	2.56	3.55	3.04	3.94	4.17	4.17	3.75	3.16	2.70	2.62	2.70	39.55
Rainfall for the State, 1920	2.61	1.05	2.72	5.78	2.45	4.53	4.50	4.36	2.56	1.97	2.82	2.14	37.49
Thirty-three year average rainfall for the State	3.13	2.55	3.51	3.12	3.72	3.83	3.92	3.35	2.75	2.68	2.64	2.67	37.89

TABLE VIII.—SUMMARY OF METEOROLOGICAL DATA BY MONTHS FOR 1920

Month	Temperature—degrees											Number of days				Precipitation			Wind prevailing direction
	Mean	Highest	Date	Lowest	Date	Range	Mean daily range	Greatest daily range	Date	Least daily range	Date	Clear	Partly cloudy	Cloudy	Rain .01 inch or more	Monthly rainfall	Average daily rainfall	Monthly snowfall	
At the Station																			
January	20.6	44	21*	—5	5	49	18.2	36	26	6	10	6	5	20	9	2.47	.079	17.00	NW
February	25.5	52	2	0	16	52	16.4	36	20	4	8	7	6	16	7	0.91	.031	7.00	NW
March	41.6	75	25	6	6	69	24.1	38	23	7	11	11	4	16	8	2.08	.067	1.75	SW
April	44.4	80	22	19	6	61	20.3	37	22	10	17	1	16	13	21	5.67	.189	1.50	NW
May	56.4	85	30	29	15	56	25.2	40	30	12	12	19	5	7	7	1.59	.051	.....	NE&NW
June	67.4	93	10	41	7	52	23.3	36	7*	7	5	12	10	8	15	8.26	.275	.....	SW
July	69.1	92	23*	44	27	48	23.9	36	28	8	19	14	10	7	14	3.67	.118	.....	SW
August	69.5	89	5	43	3	46	21.3	49	5	12	1	9	14	8	17	7.25	.234	.....	SW
September	65.0	88	21*	40	3	48	24.9	32	18	12	30	20	7	3	7	2.12	.070	.....	SW
October	57.6	82	13*	29	7*	53	26.7	43	8*	8	1*	21	4	6	6	1.30	.041	. .	SW
November	40.0	65	9	14	14	51	15.5	29	6	1	24	3	10	17	11	2.45	.081	7.00	NW
December	32.0	59	13	0	28	59	13.6	30	28	2	30	6	5	20	14	1.93	.062	4.00	SW
Total or averages	49.1	93	June 10	—5	Jan. 5	98	21.1	43	Oct. 8*	1	Nov. 24	129	96	141	136	39.70	.108	38.25	SW
For the State																			
January	22.1	65	20	—11	25	76	.....	48	26	.....	.....	10	7	14	10	2.61	.084	10.60	SW
February	27.4	66	2	—7	19	73	.....	46	2	.....	.....	7	7	15	8	1.05	.036	4.10	W
March	41.7	84	2*	—4	1	88	.....	51	31	.....	.....	13	8	10	9	2.72	.088	1.10	SW
April	45.8	90	22	14	6	76	.....	55	11	.....	.....	5	9	16	16	5.78	.192	3.30	SW
May	58.3	94	30*	25	15	69	.....	50	30	.....	.....	16	8	7	7	2.45	.079	T	NE
June	68.9	98	10*	38	6	60	.....	45	10	.....	.....	13	10	7	12	4.53	.151	.....	SW
July	70.4	98	23	40	5	58	.....	45	18	.....	.....	15	10	6	10	4.50	.145	.....	SW
August	70.3	95	5	40	2*	55	.....	41	5	.....	. .....	10	12	9	11	4.36	.141	.....	SW
September	66.5	95	26	34	30	61	... ...	46	21	.....	.....	18	7	5	7	2.56	.085	.....	SW
October	58.5	89	19*	21	31	68	.....	51	12	.....	.....	19	6	6	5	1.97	.063	T	SW
November	40.4	72	1	5	18	67	.....	48	18	.....	.....	7	7	16	10	2.82	.094	7.20	SW
December	33.8	68	13	—8	28	76	.....	43	21	.....	.....	6	7	18	12	2.14	.069	4.10	SW
Total or averages	50.3	98	J'ne 10*	—11	Jan. 25	109	.....	55	Apr. 11	.....	..... .	139	98	129	117	37.49	.102	30.40	SW

*On other dates also.

TABLE IX.—SUMMARY OF METEOROLOGICAL DATA FOR 1914-1920 AND FOR ENTIRE PERIOD*

	1914	1915	1916	1917
At Experiment Station				
Mean temperature.....degrees..	49.2	48.9	48.9	46.3
Highest temperature..... do ..	95 June 24	91 July 16	99 Aug. 21	96 July 31
Lowest temperature..... do ..	—18 Feb. 25	—13 Jan. 24	—7 Feb. 22	—19 Dec. 30
Range of temperature..... do .	113	104	106	115
Mean daily range of temperature..... do ..	22.0	20.8	23.5	22.0
Greatest daily range of temperature..... do :	51 Feb. 25	42 April 8	50 Oct. 4	44 April 11
Least daily range of temperature..... do ..	2 Jan. 4	2 Jan. 12	0 Dec. 22	1 Feb. 1
Number of clear days.....	155	132	150	126
Number of partly cloudy days.....	59	72	74	75
Number of cloudy days.....	151	161	142	164
Number of days rain fell.....	114	132	141	134
Total yearly rainfall.....inches..	37.38	42.06	34.93	31.82
Greatest monthly rainfall..... do .	6.33 June	8.35	5.25 June	4.84 June
Least monthly rainfall..... do ..	1.23 July	1.17 July	1.07 Sept.	.44 Nov.
Prevailing direction of wind.....	S. W.	S. W.	S. W.	S. W.
For the State				
Mean temperature.....degrees..	50.9	50.8	51.0	47.9
Highest temperature..... do ..	106 July 12	99 July 31	104 Aug. 21	103 July 31
Lowest temperature..... do ..	—24 Feb. 25	—22 Jan. 24	—18 Feb. 14	—31 Dec. 11
Range of temperature..... do ..	130	121	122	134
Greatest daily range of temperature..... do ..	66 Feb. 25	54 April 8	56 Jan. 13	57 Nov. 10
Average number of days rain fell.....	106	123	119	118
Mean yearly rainfall.....inches..	35.42	40.83	37.24	36.51
Mean daily rainfall..... do .	.097	.111	.101	.099
Prevailing direction of wind.....	S. W.	S. W.	S. W.	S. W.

*Summary at Experiment Station for 33 years; for State 38 years; for data from 1888-1913 at Experiment Station, and from 1883-1913 for State see Bulletin 277.

TABLE IX.—SUMMARY OF METEOROLOGICAL DATA FOR 1914-1920 AND FOR ENTIRE PERIOD*—(Concluded)

	1918	1919	1920	Summary for period 1888-1920
At Experiment Station				
Mean temperature.....degrees..	50.8	51.2	49.2	49.3
Highest temperature..... do	105 Aug. 6	95 July 3	93 June 10	105 Aug. 6, 1918
Lowest temperature..... do ..	—19 Jan. 20	—4 Dec. 20	—5 Jan. 5	—24 Jan. 13, 1912
Range of temperature..... do	124	99	98	129
Mean daily range of temperature... do	22.8	21.6	21.1	21.2
Greatest daily range of temperature. do	47 Oct. 16	41 Mar. 27	43 Oct. 8	55 Oct. 6, 1895
Least daily range of temperature..... do ..	0 Nov. 30	1 May 9	1 Nov. 24	0 Dec. 22, 1916
Number of clear days.....	156	164	129	135
Number of partly cloudy nays.....	72	77	96	88
Nnmber of cloudy days.....	137	122	141	142
Number of days rain fell.....	130	132	136	130
Total yearly rainfall.....inches .	33.75	43.08	39.70	39.54
Greatest monthly rainfall..... do ..	4.88 May	7.37 Aug.	8.26 June	11.84 Mar., 1913
Least monthly rainfall..... do ..	1.43 Nov.	.96 Feb.	.91 Feb.	.29 Sept., 1897
Prevailing direction of wind.....	S. W.	S. W.	S. W.	S. W.
For the State				
Mean temperature..... degrees..	51.5	52.3	50.3	50.8
Highest temperature..... do ..	110 Aug. 6	106 July 20	98 June 10*	113 July 4, 1897
Lowest temperature..... do ..	—28 Jan. 20	—12 Dec. 20	—11 Jan. 25	—39 Feb. 10, 1899
Range of temperature..... do ..	138	118	109	152
Greatest daily range of temperature..... do ..	57 Oct. 9	53 Mar. 25	55 Apr. 11	67 Sept. 1897
Average number of days rain fell.....	117	117	117	119
Mean yearly rainfall.....inches..	36.54	40.33	37.49	38.15
Mean daily rainfall..... do ..	.100	.110	.102	104
Prevailing direction of wind.....	S. W.	S. W.	S. W.	S. W.

*Summary at Experiment Station for 33 years; for State 38 years; for data from 1888-1913 at Experiment Station, and from 1883-1913 for State see Bulletin 277.

TABLE X.—DATE OF FIRST AND LAST KILLING FROST, LENGTH OF GROWING SEASON, AND NUMBER OF TIMES THE MERCURY FELL BELOW ZERO AT THE EXPERIMENT STATION AT WOOSTER SINCE 1894

Year	Date of killing frosts		Length of growing season	Number of times mercury fell below zero				
	Last in spring	First in autumn	Number of days	January	February	March	December	Total
1894	April 13	Oct. 7	177	.....	1	.....	2	3
1895	May 22	Sept. 28	129	5	5	.....	2	12
1896	April 24	Sept. 24	153	1	3	.....	.....	4
1897	May 26	Sept. 21	118	4	.....	.....	.....	4
1898	May 9	Oct. 16	160	1	2	.....	.....	3
1899	May 22	Sept. 30	131	2	8	.....	2	12
1900	May 10	Oct. 18	161	2	4	1	.....	7
1901	May 16	Oct. 2	139	2	.....	1	4	7
1902	April 28	Sept. 16	141	.....	4	.....	1	5
1903	May 4	Oct. 23	173	3	3	.....	4	10
1904	April 20	Sept. 22	155	7	8	.....	1	16
1905	May 24	Oct. 13	142	2	9	.....	.....	11
1906	May 10	Oct. 11	154	.....	6	1	.....	7
1907	May 12	Oct. 14	155	5	3	.....	.....	8
1908	April 17	Sept. 30	166	.....	1	.....	.....	1
1909	May 12	Oct. 19	160	1	1	.....	1	3
1910	May 15	Oct, 29	167	2	5	.....	.....	7
1911	May 5	Oct. 24	172	1	.....	.....	.....	1
1912	June 8	Sept. 30	114	11	7	.....	.....	18
1913	June 10	Sept. 23	105	.....	1	.....	.....	1
1914	May 2	Oct. 27	164	.....	6	.....	4	10
1915	May 27	Oct. 10	136	4	.....	.....	.....	4
1916	April 28	Sept. 19	154	2	1	1	5	9
1917	May 11	Oct. 1	144	2	8	.....	9	19
1918	May 2	Oct. 1	152	8	4	.....	.....	12
1919	April 27	Oct. 13	168	.....	.....	.....	2	2
1920	May 16	Oct. 7	130	1	.....	.....	.....	1
Total or average..	May 10	Oct. 7	149	66	90	4	37	197

TABLE XI.—MONTHLY MAXIMUM AND MINIMUM TEMPERATURE FOk 33 YEARS AT WOOSTER—Degrees

Date	January		February		March		April		May		June		July		August		September		October		November		December	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1888	54	— 5	54	— 1	67	8	84	19	82	31	89	40	90	43	92	41	82	31	69	27	72	19	57	9
1889	54	12	54	— 5	71	16	80	21	90	30	87	38	92	49	90	45	92	37	76	23	65	16	65	18
1890	66	5	65	14	60	1	74	23	83	30	88	46	94	45	95	40	88	38	81	30	66	24	48	15
1891	51	12	60	3	61	0	83	21	82	28	89	44	89	49	99	53	98	42	88	25	71	10	58	16
1892	54	—20	54	6	65	10	76	28	86	38	90	56	98	48	92	49	88	36	81	25	67	16	61	— 2
1893	51	— 9	47	— 2	75	10	83	24	84	36	92	45	95	47	93	37	95	28	85	24	66	15	62	6
1894	56	1	64	— 1	75	14	92	24	83	35	93	37	98	41	96	41	93	36	80	28	65	31	57	— 7
1895	54	— 6	60	— 6	59	9	80	21	94	27	98	35	92	42	94	42	93	34	73	19	72	18	61	— 2
1896	53	— 2	58	— 6	65	4	89	19	86	44	87	39	92	45	93	41	92	34	71	21	69	13	56	1
1897	61	—18	54	0	69	11	79	21	78	31	88	37	96	50	92	42	96	28	86	25	65	12	60	2
1898	64	— 1	64	— 9	71	12	77	16	81	32	90	40	96	45	90	46	90	38	86	24	66	13	56	1
1899	55	— 6	57	—21	67	9	86	21	86	30	92	40	94	45	95	39	94	32	92	22	66	22	63	— 2
1900	54	— 5	65	—10	57	— 4	78	20	89	25	90	44	95	44	94	49	89	41	86	30	69	6	55	11
1901	53	— 4	40	0	69	— 1	82	22	82	23	91	38	95	50	94	47	86	34	79	26	67	18	64	—11
1902	47	2	59	— 9	69	9	83	24	97	29	89	39	93	46	88	40	85	32	77	27	72	24	60	— 5
1903	60	— 8	63	— 9	76	21	74	19	89	27	88	41	94	42	92	43	89	32	79	26	71	9	49	— 2
1904	60	—21	57	—10	74	13	72	12	88	33	88	44	92	46	90	42	89	31	83	19	68	15	63	— 1
1905	59	— 8	43	—12	79	10	77	23	82	31	89	38	92	50	90	46	87	36	80	23	61	16	52	13
1906	72	6	65	—14	61	— 5	80	21	86	29	92	47	88	46	91	48	90	44	74	22	72	23	58	6
1907	67	—14	50	— 5	82	12	78	15	81	29	89	40	88	40	90	43	88	34	82	22	55	18	56	9
1908	51	4	56	— 3	75	21	80	24	89	30	91	36	92	46	95	43	95	28	84	24	68	17	59	7
1909	66	—11	60	— 2	60	12	81	13	84	31	89	42	89	45	94	41	90	30	81	22	72	21	66	— 6
1910	45	— 1	48	—12	84	18	81	23	82	25	90	35	94	44	94	38	91	34	85	24	66	14	49	0
1911	56	—11	62	9	67	4	77	16	92	28	94	46	101	43	97	41	87	37	75	22	65	10	61	7
1912	44	—24	55	—16	68	6	78	23	86	36	88	31	90	51	89	41	93	30	82	26	68	18	58	8
1913	57	4	62	— 2	74	1	83	20	86	25	96	32	95	42	96	45	93	28	81	24	73	12	56	7
1914	64	0	51	—18	67	6	87	19	91	29	95	36	95	45	94	49	93	34	82	26	74	13	59	—11
1915	50	—13	60	0	54	8	88	21	78	28	87	37	91	46	88	36	90	33	80	23	74	19	52	10
1916	70	— 4	57	— 7	76	— 1	78	21	86	34	84	35	96	50	99	41	94	30	89	26	71	16	61	— 6
1917	56	—11	59	—15	72	2	82	20	86	31	92	37	96	46	95	49	85	33	76	24	65	9	48	—19
1918	41	—19	63	—18	76	17	78	22	89	31	89	40	95	42	105	45	81	33	79	27	68	19	61	20
1919	59	2	62	9	68	16	77	15	94	35	93	46	95	48	90	45	90	30	87	30	61	20	56	— 4
1920	44	— 5	52	0	75	6	80	19	85	29	93	41	92	44	89	43	88	40	82	29	65	14	59	0
Extremes	72	—24	65	—21	84	— 5	92	12	97	25	98	31	101	40	105	36	98	28	92	19	74	6	66	—19

TABLE XI.—MONTHLY MAXIMUM AND MINIMUM TEMPERATURE FOR 33 YEARS FOR THE STATE—Degrees—(Concluded)

Date	January		February		March		April		May		June		July		August		September		October		November		December	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1888	68	—15	68	—10	77	— 9	92	19	91	23	102	34	97	42	102	35	92	26	80	22	80	17	62	1
1889	61	8	70	—14	82	10	88	15	96	26	92	38	98	46	100	40	98	28	82	17	77	9	73	10
1890	75	1	73	5	69	— 4	86	20	92	28	101	39	101	43	103	40	92	33	85	29	76	17	65	3
1891	65	3	80	— 2	74	— 5	95	15	93	25	98	40	95	41	101	39	99	36	93	20	76	0	66	9
1892	61	—27	74	— 1	80	— 6	90	14	99	28	101	47	103	40	99	45	96	34	89	20	76	8	70	—12
1893	63	—24	68	—14	87	— 8	93	20	94	23	102	40	101	42	101	37	100	24	95	15	76	— 2	72	— 5
1894	66	—16	76	—15	91	3	97	16	98	31	102	29	105	36	104	36	103	27	90	15	79	4	70	—27
1895	62	—19	70	—24	86	— 7	90	16	102	19	105	29	106	34	103	31	105	25	84	8	85	5	79	—13
1896	70	—14	78	—18	73	— 7	103	15	99	36	98	33	102	39	102	35	100	25	85	17	79	7	67	—15
1897	71	—27	72	— 9	82	5	92	11	91	25	102	31	113	44	101	38	105	25	97	20	76	8	71	— 7
1898	71	—18	72	—20	84	5	87	10	92	29	99	39	105	38	100	40	102	33	96	20	76	2	67	—18
1899	66	—15	67	—39	76	0	94	6	96	28	102	36	105	41	104	39	107	26	94	20	79	18	69	— 7
1900	67	—20	80	—20	70	9	87	15	97	20	96	38	103	38	103	40	100	33	93	23	80	0	65	— 2
1901	67	—10	60	—20	84	8	91	18	90	26	103	30	109	48	101	42	98	29	88	20	79	10	73	—19
1902	63	—11	66	—17	82	4	90	17	98	24	98	33	100	43	97	37	94	24	88	21	87	17	63	—11
1903	73	—13	69	—20	85	11	88	10	93	22	95	35	104	42	101	38	98	26	93	15	88	2	57	—11
1904	70	—30	75	—18	86	— 1	81	7	95	27	98	37	99	41	97	38	99	23	92	15	75	0	69	—16
1905	65	—17	54	—22	85	— 5	89	12	93	26	99	34	100	44	96	41	95	30	89	20	71	10	58	— 2
1906	79	—14	72	—23	74	—12	91	18	94	24	100	34	98	43	101	43	98	36	91	18	82	14	68	—15
1907	75	—23	66	—19	96	— 2	86	10	89	24	96	36	98	37	96	40	93	29	88	19	71	11	69	— 2
1908	59	— 8	66	—22	85	12	91	16	96	25	100	33	102	42	104	37	100	24	90	15	77	5	68	— 2
1909	74	—17	70	—17	70	6	90	13	91	24	96	36	97	40	96	35	95	25	86	16	80	15	75	—20
1910	62	—24	68	—25	90	12	88	19	88	21	97	33	98	43	100	36	93	34	94	18	78	11	63	—10
1911	68	—19	76	— 2	81	— 1	86	8	101	25	101	40	107	41	104	34	97	33	88	20	79	8	79	— 3
1912	57	—37	68	—25	80	— 3	89	15	91	31	93	28	101	42	95	40	99	29	93	23	82	3	74	— 5
1913	70	3	77	—15	80	— 8	90	18	95	23	105	29	103	40	102	39	102	26	96	18	78	2	65	— 3
1914	75	—17	67	—24	78	— 2	91	12	102	26	104	32	106	41	101	41	97	26	91	17	80	5	74	—19
1915	64	—22	70	— 9	61	3	96	12	89	27	96	31	99	43	97	34	96	27	89	20	80	11	62	1
1916	75	— 8	69	—18	87	—10	89	18	95	29	94	31	103	45	104	39	101	27	93	22	80	5	72	—15
1917	74	—16	75	—21	84	— 9	90	13	93	26	100	33	103	43	101	38	93	28	87	18	80	5	60	—31
1918	49	—28	78	—24	82	5	83	18	98	26	98	33	101	38	110	41	89	27	89	22	75	12	72	12
1919	69	— 9	70	— 3	79	10	89	10	98	30	100	41	106	44	99	39	99	32	97	25	75	11	69	—12
1920	65	—11	66	— 7	84	— 4	90	14	94	25	98	38	98	40	95	40	95	34	89	21	72	5	68	— 8
Extremes	79	—37	80	—39	96	—12	103	6	102	19	105	28	113	34	110	31	107	23	97	8	88	— 2	79	—31

TABLE XII.—MONTHLY RAINFALL AT DISTRICT AND COUNTY EXPERIMENT FARMS—Inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
						Strongsville								
1897	0.91	1.62	3.29	3.88	5.99	1.88	5.56	3.25	1.13	0.87	7.02	1.92	37.32	1897
1898	5.47	3.75	4.82	2.37	3.43	5.60	4.25	5.69	2.72	5.59	3.25	7.39	54.33	1898
1899	4.35	2.32	5.25	3.11	5.58	2.10	5.75	.61	3.14	2.86	1.55	6.36	42.98	1899
1900	3.22	5.53	3.01	2.22	1.85	1.36	4.73	2.49	3.56	2.22	4.91	1.94	37.04	1900
1901	2.73	2.20	4.35	4.76	5.14	3.32	3.15	7.46	5.51	.47	2.51	5.34	48.94	1901
1902	1.17	1.40	2.64	2.91	4.29	9.34	7.39	4.52	5.58	2.73	2.35	3.34	47.66	1902
1903	2.37	2.97	3.18	6.68	1.45	3.78	6.49	8.72	1.88	3.09	2.70	2.62	45.93	1903
1904	6.51	3.59	4.68	3.47	6.07	1.45	5.80	3.42	2.73	1.20	.50	3.87	43.35	1904
1905	2.48	2.73	3.24	3.97	4.38	2.18	5.04	4.11	3.50	2.95	2.92	1.66	39.16	1905
1906	2.03	2.06	.....	1.93	1.01	4.67	2.72	4.30	6.70	.....	4.77	5.12	.....	1906
1907	5.21	1.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1907
1908	.....	.....	.....	.....	2.82	2.17	3.70	3.10	1.00	1.60	1.08	1.90	.....	1908
1909	2.48	2.56	.....	3.49	4.13	3.20	4.40	3.60	2.71	2.60	2.80	1.30	.....	1909
1910	4.80	2.21	1.10	.....	3.05	2.50	1.00	1.37	4.85	3.90	3.98	2.99	.....	1910
1911	.....	1.16	1.85	3.03	1.95	1.80	.80	3.28	5.33	3.85	.....	1.51	.....	1911
1912	1.38	1.49	2.91	5.12	3.62	1.80	6.88	4.74	4.34	2.40	.20	1.89	36.77	1912
1913	4.50	1.45	9.30	2.08	2.15	1.30	2.60	1.70	3.30	3.59	2.61	1.13	35.71	1913
1914	2.00	1.90	2.40	4.95	5.30	3.40	2.00	5.32	.40	.....	.....	.....	.....	1914
1915	1.79	1.45	.....	.....	2.25	3.46	3.86	2.47	3.86	.95	1.41	1.52	.....	1915
1916	3.10	.48	1.26	2.22	2.72	5.02	1.20	1.24	3.60	2.37	2.01	1.19	26.41	1916
1917	1.92	1.40	2.88	3.42	4.83	2.64	2.32	2.24	2.11	4.21	.87	1.47	30.31	1917
1918	1.64	1.04	1.35	2.24	4.87	4.03	2.17	1.41	4.16	1.85	.....	.....	.....	1918
1919	1.62	1.39	2.16	3.73	4.28	1.84	4.28	7.03	2.44	6.93	5.21	1.78	42.69	1919
1920	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1920
Average	2.94	2.09	3.31	3.45	3.69	3.13	3.91	3.73	3.39	2.81	2.77	2.81	40.61	

TABLE XII.—MONTHLY RAINFALL AT DISTRICT AND COUNTY EXPERIMENT FARMS—Inches—(Continued)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
						Germantown								
1905	.....	.....	.....	3.45	7.70	3.00	3.80	7.90	3.56	4.10	2.24	3.28	.....	1905
1906	2.92	1.07	6.93	1.88	1.34	2.88	6.24	7.46	2.30	1.65	3.80	4.32	42.79	1906
1907	7.22	.32	6.23	2.26	3.20	3.65	4.10	1.93	5.64	2.92	3.25	3.22	43.96	1907
1908	2.11	6.33	4.24	4.53	4.47	1.42	3.86	1.36	.35	.27	1.70	1.31	31.95	1908
1909	3.41	7.67	2.07	5.58	6.98	5.93	4.50	3.34	.89	3.13	1.95	4.00	49.45	1909
1910	3.00	4.25	.10	1.87	5.08	1.58	3.95	1.11	3.96	7.60	.96	2.85	36.41	1910
1911	5.00	1.46	3.00	6.01	1.36	2.67	1.78	4.56	5.16	4.48	3.06	3.81	42.35	1911
1912	3.23	1.68	4.29	6.51	3.49	2.24	3.78	9.05	2.50	2.79	.72	3.30	43.58	1912
1913	8.40	2.05	7.32	5.25	2.62	2.40	3.49	2.23	2.33	2.56	4.80	.88	44.33	1913
1914	2.62	3.75	3.05	2.47	1.43	2.63	2.51	6.21	.18	2.19	2.03	2.72	31.79	1914
1915	2.95	1.75	1.34	1.54	5.58	3.01	5.38	7.40	5.62	2.12	2.32	3.53	42.54	1915
1916	6.34	1.41	3.20	2.13	3.58	5.22	1.76	3.06	2.78	1.91	1.91	2.80	36.10	1916
1917	4.15	1.56	4.31	3.27	4.11	4.37	3.43	3.56	1.82	3.77	.50	1.95	36.80	1917
1918	4.07	2.14	1.71	3.51	4.18	3.51	1.94	6.31	4.60	1.86	1.66	3.32	38.80	1918
1919	1.08	0.68	4.85	4.16	4.53	1.50	4.34	3.73	1.02	7.93	3.97	2.30	40.09	1919
1920	1.44	1.81	3.48	7.57	2.95	5.43	3.47	3.15	3.01	1.38	3.19	2.05	38.93	1920
Average	3.86	2.53	3.74	3.87	3.91	2.78	3.65	4.52	2.86	3.17	2.38	2.79	39.99	

TABLE XII.—MONTHLY RAINFALL AT DISTRICT AND COUNTY EXPERIMENT FARMS—Inches—(Continued)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Carpenter														
1903	.....	.....	.....	3.75	5.69	5.07	4.23	1.02	1.02	2.60	2.73	3.28	.....	1903
1904	3.74	2.89	5.07	3.03	2.69	3.16	3.79	2.71	2.08	1.10	.18	3.40	33.84	1904
1905	1.02	1.35	4.07	2.70	7.02	5.11	3.77	4.11	1.02	5.20	2.45	3.51	41.33	1905
1906	3.58	1.85	3.82	1.43	1.40	6.39	1.40	2.92	3.24	2.58	3.50	3.50	35.61	1906
1907	8.94	2.28	6.13	3.57	3.47	4.49	4.84	4.10	2.94	2.38	2.14	1.72	47.00	1907
1908	1.37	4.31	7.80	5.15	3.36	2.92	3.74	3.50	.48	.85	1.37	2.13	37.98	1908
1909	3.05	5.72	2.77	4.10	4.29	7.63	4.18	2.18	.86	2.12	.90	2.05	39.85	1909
1910	6.40	4.70	.20	3.23	2.91	2.35	3.40	1.74	.99	1.68	1.42	2.80	31.82	1910
1911	5.56	3.08	2.26	3.90	2.06	6.14	1.19	4.69	5.18	3.68	2.20	4.01	43.95	1911
1912	1.48	2.44	3.39	4.04	2.90	2.92	5.46	2.56	2.51	1.80	.38	2.09	31.97	1912
1913	6.78	1.98	1.71	2.74	4.23	2.29	2.64	2.38	2.07	2.89	2.34	2.36	34.41	1913
1914	1.17	2.05	1.72	2.84	2.33	2.53	1.23	4.88	1.07	2.98	1.08	4.65	28.53	1914
1915	2.91	.95	1.05	1.22	4.95	4.40	3.90	2.76	3.64	1.96	3.35	4.85	35.94	1915
1916	4.91	3.33	3.83	1.95	4.72	3.57	2.20	2.95	1.89	2.22	1.46	3.29	36.34	1916
1917	5.28	1.37	6.19	3.87	3.61	5.28	5.20	1.58	1.52	4.71	.65	.65	39.91	1917
1918	2.37	2.99	4.07	4.54	2.81	4.85	1.48	3.05	1.55	3.23	2.61	4.90	38.45	1918
1919	2.78	1.53	3.02	2.21	5.74	2.72	5.03	6.30	1.20	5.34	4.85	4.08	44.80	1919
1920	4.27	2.00	3.54	5.96	2.42	3.78	4.95	2.51	2.92	1.87	1.78	1.81	37.81	1920
Average	3.86	2.64	3.57	3.35	3.70	4.20	3.48	3.11	2.01	2.73	1.97	3.06	37.62	

TABLE XII.—MONTHLY RAINFALL AT DISTRICT AND COUNTY EXPERIMENT FARMS—Inches—(Continued)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Marietta														
1916	3.24	2.15	2.78	1.80	5.55	4.40	2.12	4.08	2.23	2.74	1.95	3.53	36.57	1916
1917	4.50	1.96	4.07	4.55	4.49	6.36	3.91	3.04	1.69	5.50	0.73	0.91	41.71	1917
1918	3.15	2.33	3.88	4.84	4.15	1.96	2.75	4.71	2.58	3.81	1.64	4.47	40.27	1918
1919	2.77	1.36	3.13	2.85	3.97	3.86	3.07	5.89	2.66	5.30	6.67	4.09	45.62	1919
1920	3.92	2.12	2.80	5.14	1.94	5.48	6.50	2.02	2.54	1.97	1.85	1.75	38.03	1920
Average	3.52	1.98	3.33	3.84	4.02	4.41	3.67	3.95	2.34	3.86	2.57	2.95	40.44	
Canfield														
1916	.....	.....	.....	.....	5.22	5.12	3.45	1.49	2.38	2.19	.....	1.96	.....	1916
1917	2.33	1.05	1.91	1.97	2.74	5.41	3.63	2.39	2.19	5.74	0.73	1.23	31.32	1917
1918	2.41	1.84	2.26	3.97	5.08	.....	1.93	1.25	3.29	3.26	1.70	2.97	.....	1918
1919	1.70	1.26	2.75	1.93	5.17	1.34	3.20	5.82	2.58	4.78	2.45	1.74	34.72	1919
1920	1.62	0.90	1.56	5.87	0.89	6.75	3.02	3.69	1.87	1.48	2.62	1.49	31.76	1920
Average	2.01	1.26	2.12	3.93	3.82	4.65	3.05	2.93	2.46	3.49	1.87	1.88	32.60	
Mt. Healthy														
1916	5.91	1.76	2.57	2.68	4.01	5.13	1.45	3.29	2.03	1.05	1.78	2.73	34.39	1916
1917	5.04	1.61	3.67	4.45	5.13	4.81	4.61	1.41	3.79	4.50	0.36	2.38	41.76	1917
1918	3.98	2.63	4.01	3.26	.....	7.75	3.30	5.34	3.90	2.94	1.70	3.54	.....	1918
1919	.....	.....	4.60	3.77	4.39	1.92	3.13	1.96	2.94	10.70	4.15	2.55	.....	1919
1920	2.90	1.68	4.15	5.80	4.96	2.87	4.52	4.49	4.92	1.48	3.19	1.99	42.95	1920
Average	4.46	1.92	3.80	3.99	4.62	4.50	3.40	3.30	3.52	4.13	2.24	2.64	39.70	

TABLE XII.—MONTHLY RAINFALL AT DISTRICT AND COUNTY EXPERIMENT FARMS—Inches—(Concluded)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Paulding														
1916	4.63	0.68	2.51	2.02	5.98	6.01	1.02	1.28	1.78	1.29	2.07	1.87	31.14	1916
1917	.....	0.52	3.98	3.85	4.82	4.14	3.29	1.70	1.67	6.39	0.49	0.59	.....	1917
1918	2.04	1.19	.....	.....	3.22	1.97	1.74	1.02	.....	2.01	2.73	4.44	.....	1918
1916	1.04	1.64	4.02	2.75	4.86	3.34	0.57	2.48	1.73	6.32	1.41	0.34	30.50	1919
1920	1.29	0.18	2.11	4.86	1.79	3.10	4.45	2.00	1.90	3.06	3.35	3.35	31.44	1920
Average	2.25	0.84	3.15	3.37	4.13	3.71	2.21	1.70	1.77	3.81	2.01	2.12	31.03	
Batavia														
1916	6.29	2.39	4.59	1.94	3.93	4.27	1.31	4.97	2.25	2.14	1.97	3.64	39.69	1916
1917	4.51	1.59	3.93	3.73	4.44	3.03	4.12	1.84	2.23	3.00	0.63	1.48	34.53	1917
1918	5.33	0.95	2.54	2.73	3.94	5.93	1.36	5.88	2.46	3.02	2.15	4.73	41.02	1918
1919	1.95	0.87	5.31	3.39	4.74	2.98	3.85	1.76	1.85	9.56	4.64	3.46	44.36	1919
1920	4.05	1.59	3.81	6.81	4.04	2.88	5.28	7.15	3.13	1.95	1.60	1.01	43.30	1920
Average	4.43	1.48	4.04	3.72	4.22	3.82	3.18	4.32	2.38	3.93	2.20	2.86	40.58	

TABLE XIII.—MONTHLY MEAN TEMPERATURE AT DISTRICT AND COUNTY EXPERIMENT FARMS—Degrees

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Marietta														
1916	38.6	29.7	38.4	50.6	63.8	65.9	76.5	74.6	63.4	53.7	43.1	31.8	52.5	1916
1917	30.6	29.8	40.7	51.7	56.0	67.3	72.8	72.2	62.5	49.2	39.3	24.0	49.7	1917
1918	19.1	35.2	46.4	51.4	67.7	69.4	71.0	77.4	60.2	58.1	42.4	41.4	53.3	1918
1919	33.9	35.0	44.4	51.4	61.7	73.8	75.2	70.6	66.8	62.0	43.6	28.2	53.9	1919
1920	26.2	29.7	42.4	48.6	58.7	68.5	71.1	70.7	65.6	54.4	39.7	34.0	50.8	1920
Average	29.7	31.9	42.5	50.7	61.6	69.0	73.3	73.1	63.7	55.5	41.6	31.9	52.0	
Canfield														
1916	.....	.....	.....	.....	59.7	61.8	72.8	71.2	62.6	52.4	41.3	28.8	.....	1916
1917	27.0	22.6	37.3	46.1	52.3	65.9	71.6	70.0	59.4	45.6	36.2	21.0	46.2	1917
1918	13.4	28.5	41.0	47.2	65.0	.....	69.4	73.4	55.6	54.0	40.7	38.0	.....	1918
1919	31.3	30.2	38.6	47.2	56.0	70.8	72.1	66.6	62.6	54.2	39.6	23.4	49.4	1919
1920	19.0	23.8	37.8	42.5	53.6	64.4	66.6	68.2	62.1	55.4	38.5	31.4	46.9	1920
Average	22.7	26.3	38.7	45.7	57.3	65.7	70.5	69.9	60.5	52.3	39.3	28.5	47.5	
Mt. Healthy														
1916	37.8	30.0	38.7	51.4	64.8	66.4	77.6	76.0	65.6	55.8	45.6	31.8	53.5	1916
1917	32.0	30.8	42.8	51.5	56.6	68.5	73.0	72.8	64.6	48.2	41.9	21.7	50.4	1917
1918	15.6	33.6	46.6	50.5	66.4	68.6	71.0	77.0	60.4	57.5	44.0	41.4	52.7	1918
1919	.....	.....	45.8	51.0	59.1	74.3	76.6	72.4	70.3	61.2	43.1	28.0	.....	1919
1920	26.2	29.6	45.8	48.3	62.0	70.2	74.3	71.8	68.7	60.9	43.4	35.2	53.0	1920
Average	27.9	31.0	43.9	50.5	61.8	69.6	74.5	74.0	65.9	56.7	43.6	31.6	52.4	

TABLE XIII.—MONTHLY MEAN TEMPERATURE AT DISTRICT AND COUNTY EXPERIMENT FARMS—Degrees (Concluded)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Paulding														
1916	31.4	24.6	33.2	49.0	60.4	64.4	78.8	76.8	64.0	52.4	41.2	25.2	50.1	1916
1917	24.6	21.8	38.6	47.0	53.2	65.7	71.2	70.4	60.8	44.0	37.8	19.7	46.2	1917
1918	10.8	28.0	43.6	48.0	66.0	68.2	71.0	76.8	.....	54.4	41.4	37.6	.....	1918
1919	31.4	31.2	39.2	49.2	57.7	73.4	75.2	70.5	67.6	56.8	40.0	23.8	51.3	1919
1920	17.0	23.7	38.5	42.9	56.5	68.2	69.2	69.0	65.5	57.6	38.8	31 8	48.2	1920
Average	23.0	25.9	38 6	47.2	58.8	68.0	73.1	72.7	51.6	53.0	39.8	27.6	48.9	
Batavia														
1916	38.8	30.7	39.4	51.8	64.6	67.0	78.3	75.8	65.0	55.3	45.8	32.2	53 7	1916
1917	32.1	29.2	42.6	52.1	57.2	68.6	73.6	73.6	65.4	48.6	41.8	23.0	50.6	1917
1918	17.4	35.0	49.5	52.0	68.2	71.4	73.2	78.3	61.2	60.2	44.4	42.2	54.4	1918
1919	35.6	36.0	44.8	53.2	61.4	75.4	76.9	72.8	70.8	63.0	42.4	28.1	55.0	1919
1920	27.0	30.5	44.0	49.1	60.1	69.6	72.3	71.2	68.0	60.8	42.4	35.6	62.5	1920
Average	30.2	32.3	44.1	51.6	62.3	70.4	74.9	74.3	66.1	57.6	43.4	32.2	55.2	
Germantown														
1915	26.6	38.2	34.8	56.6	59.8	68.4	72.8	68.0	68.0	56.7	46.0	31.8	52.3	1915
1916	36.4	28.6	37.2	51.0	63.5	65.8	78.2	75.4	65.0	54.0	43.8	30 7	52.5	1916
1917	29.4	29.4	41.8	50.8	55.3	67.3	72.1	71.8	62.9	47.6	41.0	21.3	49.2	1917
1918	15.2	32.2	44.3	50.0	66.4	69.6	71.6	77.6	58.6	58.6	43.0	41.6	52.4	1918
1919	34.2	34.1	42.6	51.2	58.4	74.5	75.8	72.0	68.3	60.5	42.6	26.7	53.4	1919
1920	24.6	29.7	42.8	46.8	59.8	69.3	71.4	70.4	67.0	59.6	41.6	34.7	51.5	1920
Average	27.7	32.0	40.6	51.1	60.5	69.1	73.6	72.5	65.0	56.2	43.0	31.1	51.9	

TABLE XIV.—DAILY EVAPORATION (inches) AND WIND MOVEMENTS (miles) AT THE EXPERIMENT STATION, WOOSTER, JULY-OCTOBER, 1916

Date	July		August		September		October	
	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement
1	0.021	34	0.241	47	0.200	30	0.109	27
2	.230	33	.175	44	.071	39	.116	60
3	.244	54	.214	46	.204	58	.132	34
4	.115	65	.245	32	.186	36	.111	29
5	.206	50	.154	37	.172	61	.148	41
6	.228	43	.192	32	.224	54	.141	36
7	.220	38	.249	25	.072	39	.124	43
8	.216	29	.278	46	.247	61	.149	28
9	.202	40	.132	30	.168	39	.120	54
10	.100	35	.240	46	.168	61	.090	104
11	.224	39	.169	30	.261	40	.086	38
12	.266	45	.162	41	.197	46	.089	32
13	.250	50	.267	55	.240	89	.158	78
14	.118	26	.216	54	.183	23	.063	98
15	.154	38	.222	27	.015	100	.090	30
16	.276	73	.175	36	.168	41	.046	83
17	.239	21	.194	28	.164	37	.115	97
18	.012	41	.198	22	.059	62	.091	68
19	.175	41	.207	21	.165	45	.119	125
20	.205	40	.178	31	.132	48	.133	80
21	.250	53	.218	25	.219	68	.121	202
22	.199	34	.216	30	.109	38	.017	67
23	.276	52	.269	54	.131	82	.069	44
24	.264	34	.177	66	.103	53	.068	23
25	.196	33	.222	46	.126	80	.034	29
26	.104	22	.147	27	.138	51	.073	107
27	.197	33	.187	32	.170	51	.082	54
28	.238	33	.306	41	.260	51	.086	61
29	.266	36	.194	40	.074	76	.069	35
30	.257	33	.162	22	.093	123	.109	60
31	.227	30	.191	29	....	.....	.077	26
Total	6.177	1,218	6.397	1,095	4.719	1,727	3.035	1,893
Average	.199	39	.206	35	.157	58	.098	61

TABLE XIV.—DAILY EVAPORATION (inches) AND WIND MOVEMENTS (miles) AT THE EXPERIMENT STATION, WOOSTER, APRIL-OCTOBER, 1917—(Continued)

Date	April		May		June		July		August		September		October	
	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement
1	.045	89	.097	163	.079	38	230	49	.295	44	.116	28	.052	83
2	.095	118	.116	105	.111	60	.242	54	.286	11	.157	32	.083	42
3	.079	50	.152	64	.209	98	.226	43	.239	90	.124	20	.042	57
4	.162	124	.124	122	.169	34	.161	31	.211	29	.136	46	.086	66
5	.052	154	.084	97	.092	33	.232	22	.262	32	.166	24	.003	96
6	.032	199	.010	76	.236	57	134	39	.242	39	.117	66	.075	56
7	.096	163	.016	31	.291	81	.227	45	.250	42	.020	21	.048	42
8	.076	151	.093	62	.152	65	.128	71	.192	58	.089	46	.077	94
9	.086	116	.110	84	.047	47	.179	38	.149	41	.127	31	.042	34
10	.092	117	.106	67	.063	67	.128	53	.142	30	.176	86	.057	49
11	.156	73	.146	75	.162	59	.061	30	.188	23	.112	38	.032	36
12	.149	113	.103	134	.179	34	.142	29	.247	27	.130	27	.039	83
13	.116	174	.106	126	.142	48	.072	37	.106	26	.143	35	.043	57
14	.036	47	.208	129	.278	73	.068	44	.167	31	.141	24	.060	71
15	.051	70	.178	81	.099	72	.171	44	.184	25	.121	22	.081	76
16	.061	36	.164	66	.110	56	.127	25	.168	22	.188	65	.108	48
17	.099	45	.138	56	.169	47	.146	37	.165	51	.112	29	.075	35
18	.074	47	.192	58	.232	36	.138	37	.170	23	.108	26	.053	97
19	.163	57	.291	87	.264	47	.163	33	.206	22	.073	10	.051	64
20	.198	82	.183	81	.240	55	.204	28	.216	22	.165	40	.052	42
21	.188	98	.123	75	.196	37	.232	30	.208	22	.050	48	.038	37
22	.024	83	.076	95	.220	47	.219	26	.055	19	.123	42	.041	30
23	.102	60	.168	115	.134	47	.220	21	.056	26	.120	50	.059	54
24	.134	101	.166	109	.134	82	.220	32	.100	50	.117	35	.079	85
25	.083	110	.151	81	.166	27	.184	31	.239	60	.098	25	.004	83
26	.097	76	.087	50	.231	45	.229	31	.196	45	.108	30	.042	90
27	.081	46	.109	80	.169	42	.209	52	.184	41	.093	47	.038	58
28	.119	56	.063	64	.143	43	.214	29	.168	29	.122	65	.044	82
29	.069	79	.133	143	.154	72	.252	38	.082	36	.108	30	.095	66
30	.041	39	.157	46	.166	31	.263	45	.083	43	.135	105	.055	70
31	.....	.....	.267	87	.....	.....	.313	44	.068	6	.....	.....	.053	41
Total	2.856	2,773	4.117	2,709	5.037	1,580	5.734	1,168	5.524	1,065	3,595	1,193	1.806	1,924
Average	.095	92	.133	87	.168	53	.185	38	.178	34	.120	40	.058	62

TABLE XIV.—DAILY EVAPORATION (inches) AND WIND MOVEMENTS (miles) AT THE EXPERIMENT STATION, WOOSTER, APRIL-OCTOBER, 1918—(Continued)

Date	April		May		June		July		August		September		October	
	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement
1	.....	.....	.137	111	.151	62	.245	85	.199	35	.133	44	.003	86
2	.....	.....	.161	125	.163	27	.166	30	.204	44	.193	33	.077	43
3	.....	.....	.231	80	.169	17	.251	65	.173	27	.120	47	.096	37
4	.....	.....	.231	76	.183	30	.179	21	.279	45	.070	25	.089	20
5	.....	.....	.207	62	.161	25	.255	40	.252	39	.101	85	.104	61
6	.....	.....	.247	61	.141	55	.247	60	.305	36	.217	50	.183	82
7	.....	.....	.211	117	.263	78	.199	51	.289	32	.007	19	.062	85
8	.....	.....	.206	96	.167	5	.203	60	.277	62	.131	30	.073	34
9	.....	.....	.114	65	.226	58	.246	78	.187	52	.141	11	.077	23
10	.....	.....	.189	147	.183	41	.219	55	.147	29	.068	51	.071	33
11	.....	....	.029	51	.193	41	.234	44	.244	30	.053	24	.075	12
12	.....	.....	.....	91	.270	132	.092	48	.076	30	.044	60	.066	33
13	.....	.....	.....	78	.170	77	.171	56	.280	37	.072	37	.094	89
14	.....	.....	.104	40	.168	43	.218	42	.236	53	.072	21	.109	86
15	.138	25	.124	30	.166	33	.219	28	.201	32	.131	24	.086	38
16	.105	42	.160	42	.187	35	.131	19	.238	30	.100	43	.096	44
17	.150	71	.186	32	.273	64	.237	43	.154	48	.076	56	.088	26
18	.163	103	.194	40	.251	51	.077	31	.301	76	.092	30	.116	90
19	.108	123	.162	52	.276	75	.229	53	.209	73	.028	19	.072	67
20	.096	132	.156	66	.245	56	.227	31	.219	47	.061	60	.000	75
21	.095	106	.098	32	.123	79	.263	29	.200	45	.082	79	.070	41
22	.110	140	.218	42	.088	76	.221	30	.104	22	.077	35	.064	33
23	.103	71	.229	60	.143	82	.132	23	.205	28	.100	26	.038	16
24	.128	79	.133	21	.187	20	.169	28	.213	50	.077	17	.060	50
25	.120	84	.135	32	.135	48	.221	35	.202	20	.169	23	.015	47
26	.080	116	.294	53	.107	34	.215	53	.133	20	.069	88	.019	28
27	.101	111	.318	50	.196	49	.196	36	.096	20	.087	60	.047	46
28	.226	123	.238	56	.176	59	.224	26	.119	66	.142	51	.095	26
29	.201	122	.200	44	.200	36	.161	41	.083	44	.138	57	.055	30
30	.134	62	.079	31	.270	50	.174	63	.129	34	.162	28	.023	30
31	.....	.....	.281	28	.....	.....	.188	60	.088	42	.....	.....	.041	126
Total	2.058	1,510	5.272	1,911	5.631	1,538	6.209	1,364	6.042	1,248	3.013	1,233	2.164	1,487
Average	.129	94	.182	62	.188	51	.200	44	.195	40	.100	41	.070	48

TABLE XIV.—DAILY EVAPORATION (inches) AND WIND MOVEMENTS (miles) AT THE EXPERIMENT STATION, WOOSTER, APRIL-OCTOBER, 1919—(Continued)

Date	April		May		June		July		August		September		October	
	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement
1	.....	.....	.031	89	.206	1	.227	1	.107	47	.077	25	.150	43
2	.....	.....	.168	90	.169	17	.263	2	.218	49	.049	10	.170	24
3	.....	.....	.163	63	.257	10	.287	20	.182	21	.134	30	.110	10
4	.....	.....	.177	86	.135	8	.283	25	.110	5	.184	14	.122	40
5	.....	.....	.137	74	.176	39	.206	15	.....	63	.097	10	.171	45
6	.....	.....	.093	36	.239	40	.225	62	.264	58	.049	8	.133	69
7	.....	.....	.135	55	.210	52	.259	56	.236	32	.117	13	.106	50
8	.....	.....	.109	67	.184	45	.266	58	.193	45	.129	44	.100	25
9	.....	.....	.017	120	.197	30	.268	40	.153	32	.146	24	.008	97
10	.114	74	.045	34	.224	29	.277	52	.213	41	.098	16	.082	48
11	.136	93	.032	69	.248	31	.229	51	.167	9	.129	9	.042	46
12	.060	46	.018	65	.246	49	.198	39	.132	41	.141	4	.274	39
13	.079	65	.098	59	.252	30	.221	31	.163	35	.095	8	.171	33
14	.031	17	.141	25	.247	31	.161	44	.172	45	.101	17	.086	33
15	.062	88	.152	69	.295	51	.200	50	.177	28	.055	23	.037	12
16	.063	93	.091	30	.240	24	.213	45	.150	21	.098	52	.017	16
16	.082	98	.090	64	.211	41	.269	54	.101	58	.123	42	.078	71
18	.067	105	.114	45	.190	9	.227	29	.184	48	.112	6	.082	6
19	.123	47	.173	29	.283	41	.182	28	.250	22	.070	80	.058	32
20	.147	80	.061	60	.270	38	.097	67	.074	32	.078	50	.031	18
21	.110	41	.122	38	.219	45	.202	13	.089	53	.072	90	.017	17
22	.135	36	.128	7	.264	50	.168	65	.140	19	.044	20	.040	27
23	.127	56	.079	31	.216	36	.234	17	.179	30	.061	20	.044	16
24	.163	175	.051	13	.200	62	.237	45	.220	45	.117	45	.017	28
25	.076	119	.092	14	.126	67	.218	21	.221	33	.092	63	.017	72
26	.117	133	.132	25	.149	39	.238	41	.180	63	.098	37	.087	50
27	.130	33	.162	24	.077	61	.257	20	.147	44	.126	28	.....	40
28	.053	34	.187	39	.249	85	.276	20	.136	40	.080	11	.210	65
29	.069	64	.148	8	.218	33	.257	56	.146	12	.127	44	.043	38
30	.078	81	.172	13	.209	40	.200	18	.192	42	.056	35	.056	48
31	.....	.....	.134	8	.....	.....	.....	25	.158	75	.....	.....	.023	29
Total	2.022	1,572	3.451	1,449	6.406	1,134	6.845	1,110	5.054	1.188	3.055	878	2.585	1,187
Average	.096	75	.111	47	.213	38	.228	36	.168	38	.102	29	.086	38

TABLE XIV.—DAILY EVAPORATION (inches) AND WIND MOVEMENTS (miles) AT THE EXPERIMENT STATION, WOOSTER, MAY-OCTOBER, 1920—(Concluded)

Date	May		June		July		August		September		October	
	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement	Evaporation	Wind movement
1	.138	100	.124	27	.185	16	.240	33	.205	42	.020	75
2	.191	55	.115	35	.104	26	.107	28	.258	9	.073	35
3	.131	49	.273	44	.232	64	.135	13	.100	15	.111	41
4	.148	61	.135	55	.252	71	.160	39	.129	6	.107	58
5	.184	71	.020	34	.234	22	.190	10	.....	9	.114	52
6	.159	64	.112	35	.101	39	.156	24	.183	10	.091	30
7	.134	50	.123	1	.114	59	.274	10	.010	4	.055	33
8	.153	55	.167	11	.127	34	.114	19	.125	8	.073	13
9	.212	60	.210	11	.147	34	.....	8	.084	18	.087	7
10	.142	30	.237	3	.139	29	.043	20	.086	31	.091	7
11	.055	32	.236	8	.105	3	.112	22	.099	32	.122	30
12	.050	31	.243	17	.129	38	.102	4	.150	40	.124	8
13	.109	37	.319	38	.230	31	.063	19	.167	32	.096	2
14	.153	53	.112	13	.170	56	.107	22	.114	5	.089	20
15	.124	84	.179	30	.250	36	.105	6	.129	31	.098	27
16	.184	84	.181	25	.212	14	.074	15	.197	60	.136	43
17	.196	80	.....	89	.197	15	.085	20	.157	19	.069	22
18	.054	73	.105	62	.277	23	.118	23	.133	31	.048	10
19	.063	75	.168	40	.084	20	120	31	.162	9	.062	7
20	.149	49	.088	71	.109	2	.117	28	.086	7	.050	9
21	.119	48	.098	66	.209	10	.150	29	.064	26	.068	16
22	.184	28	.082	30	.154	16	.153	71	.117	22	.066	6
23	.185	40	.108	27	.201	24	.099	36	.146	26	.055	19
24	.143	35	.220	23	.325	69	.120	24	.155	24	.053	21
25	.091	57	.176	49	.279	66	.114	10	.061	13	.018	22
26	.150	28	.200	1	.201	24	.155	6	.120	37	.012	44
27	.118	21	.202	19	.217	34	.116	8	.....	5	.047	63
28	.214	50	.209	19	.147	6	.065	20	.148	33	.059	11
29	.195	13	.247	31	.189	35	.238	16	.110	6	.042	12
30	.202	44	.165	30	.281	32	.238	40	.044	20	.046	8
31	.111	12	.....	.....	.204	50	.100	99	.....	.....	.054	54
Total	4.441	1,569	4.854*	944	5.805	998	3.970†	693	3.539‡	630	2.236	805
Average	.143	51	.167	31	.187	32	.132	22	.126	21	.072	26

*Twenty-nine days, †Thirty days, ‡Twenty-eight days.

NOTES ON THE WEATHER AT THE OHIO EXPERIMENT STATION AT WOOSTER, 1920

SUMMARY BY MONTHS

LATITUDE 40° 47′ 01″—LONGITUDE 81° 55′ 48″
ELEVATION ABOVE SEA LEVEL, 1,030 FEET

JANUARY

The weather for the month as a whole averaged very cold only 4 January months in the past 32 years surpassing it. The mean temperature was 20.6 degrees. The highest temperature for the month was 44 degrees on the 21st and the lowest—5 degrees on the 5th. The snowfall was heavy, some remaining on the ground the entire month. The precipitation was less than the average.

FEBRUARY

The cold weather continued through the entire month of February, with the ground covered with, from 2 to 6 inches of snow and ice. The mean temperature was below the average. The highest for the month was 52 degrees on the 2nd and the lowest was zero on the 16th. The precipitation was light, being only .91 of an inch.

MARCH

The snow and ice remained on the ground the first half of the month, and cold cloudy weather prevailed. The mean temperature was 41.6 degrees; this is above the average for March. The highest temperature 75 degrees occurred on the 25th and the lowest 6 degrees on the 6th. The wheat crop was very seriously injured by the covering of ice remaining on the ground so long.

APRIL

The mean temperature for April was 44.4 degrees which is below the average for this month. The highest temperature 80 degrees occurred on the 22nd and the lowest 19 degrees on the 6th. The rainfall was heavy, being 2.63 inches above the average for April. Rain or snow fell on 24 days. The total precipitation was 5.67 inches.

MAY

The mean temperature for May was below the average and the rainfall light. A heavy frost and freeze came on the 16th, freezing ice. The highest temperature for the month was 85 degrees on the 30th and the lowest was 29 degrees on the 15th. Rain fell on only 7 days; the total fall for the month was 1.59 inches.

JUNE

The mean temperature for June was 67.4 degrees, this being the average for June for the past 33 years. The rainfall was very heavy; the total for the month being 8.26 inches. With the exception of the heavy rains of March 1913 this heavy fall has only been equalled once in the history of the Station this being in July 1915. The highest temperature for the month was 93 degrees on the 10th.

JULY

The mean temperature was below the average. The weather for the month as a whole was noted for being cool for July. The mean temperature for the month was 69.1 degrees, this being the lowest mean for July since 1895. The highest temperature was 92 degrees on the 23rd and 30th. The lowest, 44 degrees, on the 27th. The total rainfall was 3.67 inches.

AUGUST

The mean temperature was 69.5 degrees which is slightly below the average for this month. The highest temperature was 89 degrees on the 5th, and the lowest was 43 degrees, on the 3rd. The total precipitation for the month was 7.25 inches, this being 3.5 inches above the average for August.

SEPTEMBER

The mean temperature for September was 65 degrees which is 1.9 degrees above the average for this month. The highest was 88 degrees on the 21st, and 26th. The lowest was 40 degrees on the 3rd. The total rainfall was 2.12 inches.

OCTOBER

The mean temperature was above the average and the rainfall light. The weather was favorable for out door work, as there was but very few rainy days; the total rainfall was 1.30 inches. The highest temperature for the month was 82 degrees on the 13th, 20th, 21st and 22nd. The lowest was 29 degrees on the 7th and 30th. First killing frost of the season, Oct. 7th.

NOVEMBER

The mean temperature for Nov. was 40 degrees, which is very near the 33-year average. Very cold on 12th, 13th and 14th followed by heavy snow on 16th and 17th from Northeast; it remained on the ground but a few days. The total precipitation was 2.45 inches.

DECEMBER

The mean temperature for December was 32 degrees which is above the average for this month. The highest was 59 degrees on the 13th and the lowest was 0 on the 28th. Cloudy weather prevailed; rain or snow fell on 19 days. The precipitation was below the average, the total being only 1.93 inches.